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THEO. KOSS 1905 SEED CATALOG



GARDEN & FARM SEEDS
POULTRY SUPPLIES ETC.

283-285 GROVE ST.
MILWAUKEE, WIS.

KOSS' BARGAIN COLLECTIONS

BIG VALUE FOR THE MONEY

FULL SIZED PACKETS

Our Large Vegetable Garden



\$1.00. This family garden full month.

Consists of the following 35 Packets of our best and earliest varieties of Vegetables and one Packet of "Wild Flower Garden" and these 36 Packets we send postpaid for only \$1.00. This collection contains sufficient seed to supply a family garden with Vegetables throughout the summer and fall months.

- | | |
|---------------------------------|---------------------------------|
| 1 Pkt. Wax Beans. | 1 Pkt. Kohlrabi. |
| 1 Pkt. Refugee Beans. | 1 Pkt. Pumpkin. |
| 1 Pkt. Early Peas. | 1 Pkt. Curled Cress. |
| 1 Pkt. Early Sweet Corn. | 1 Pkt. Leek. |
| 1 Pkt. Pickle Cucumber. | 1 Pkt. Watermelon. |
| 1 Pkt. Long Green Cucumber. | 1 Pkt. Muskmelon. |
| 1 Pkt. Early Cabbage. | 1 Pkt. Long White Parsnip. |
| 1 Pkt. Late Cabbage. | 1 Pkt. Curled Parsley. |
| 1 Pkt. Cauliflower. | 1 Pkt. Scarlet Turnip Radish. |
| 1 Pkt. Curled Kale. | 1 Pkt. Long Radish. |
| 1 Pkt. Half Long Carrot. | 1 Pkt. Early Blood Turnip Beet. |
| 1 Pkt. Early Purple Top Turnip. | 1 Pkt. Rutabaga. |
| | 1 Pkt. Squash. |
| | 1 Pkt. Early Curled Lettuce. |
| | 1 Pkt. Head Lettuce. |
| | 1 Pkt. Boston Market Celery. |
| | 1 Pkt. Large Erfurt Celeriac. |
| | 1 Pkt. Round Leaf Spinach. |
| | 1 Pkt. Early Tomato. |
| | 1 Pkt. Yellow Onion. |
| | 1 Pkt. Red Onion. |
| | 1 Pkt. Marjoram. |
| | 1 Pkt. Thyme. |
| | 1 Pkt. Wild Flower Garden. |

THE SMALL VEGETABLE GARDEN

This consists of 17 varieties of Vegetable Seeds and one packet of "Wild Flower Garden." These 18 Packets we will send postpaid for only 50 cents.

- | | | |
|--------------------------|---------------------------------|------------------------------|
| 1 Pkt. Wax Beans. | 1 Pkt. Muskmelon. | 1 Pkt. Early Curled Lettuce. |
| 1 Pkt. Early Peas. | 1 Pkt. Curled Parsley. | 1 Pkt. Round Leaf Spinach. |
| 1 Pkt. Early Sweet Corn. | 1 Pkt. Scarlet Turnip Radish. | 1 Pkt. Early Tomato. |
| 1 Pkt. Pickle Cucumber. | 1 Pkt. Half Long Carrot. | 1 Pkt. Onion. |
| 1 Pkt. Early Cabbage. | 1 Pkt. Early Blood Turnip Beet. | 1 Pkt. Marjoram. |
| 1 Pkt. Kohlrabi. | 1 Pkt. Purple Top Turnip | 1 Pkt. Wild Flower Garden. |

TWELVE PACKETS OF FLOWER SEEDS

Most Beautiful Varieties for only 25 Cents.

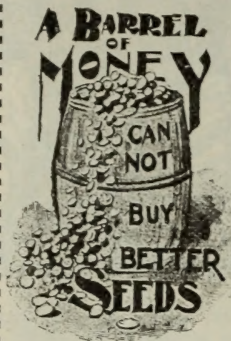


Bargain Collection.

This collection of twelve beautiful flowers each separate in lithographed packets with cultural directions, for only 25 cents, worth 60 cents. An exceptional offer.

THEO. KOSS, MILWAUKEE, WIS.

SEED BUYERS ATTENTION.



Seedsmen and Seed Catalogues are divided into several classes:

1st. A class whose catalogues are filled with over-drawn illustrations, and whose pages teem with fabulous tales, outside the bounds of all reason.

2nd. The "fancy priced man" with his extravagantly expensive catalogue, charging high prices for ordinary seed.

3rd. The so-called "cheap" seedsmen, whose only argument is cheapness, and whose stock is generally dear at any price.

4th. The seedsmen who aim to offer the **Best Seeds** possible to procure, and at a reasonable price. We are in this class, which is of good size. Everything we offer was grown for seed, carefully selected and cleaned. We do not, knowingly, misrepresent anything. Our descriptions are reliable; our illustrations modest and true; our prices reasonable. We ask your patronage.

A barrel of money cannot buy better seeds than ours.

WHAT WE GUARANTEE.

We guarantee that if we cannot promptly fill your order for any item, that we will at once return the money sent for same.

We guarantee that we will not keep your money, send you "due bill" or substitute something you do not want.

We guarantee that seeds ordered from this catalogue will prove of satisfactory purity and germination to you, or they may be returned at our expense, and the money that has been paid will be cheerfully and promptly refunded without "ifs or ands."

We prefer that remittance be made by Bank Draft, Express or Post Office Money Order, and we Guarantee that money sent us in that way will reach us.

We accept postage stamps, currency or coin, but we **Do Not Guarantee** that money sent us in that form will reach us.

SUGGESTIONS TO CUSTOMERS.

Cash should always accompany the order. No goods sent C. O. D.

SEEDS BY MAIL—All seeds in packets, ounces and quarter pounds will be sent post-paid by mail at prices quoted; on parcels containing more than a quarter pound postage must be added at the rate of 8 cents per pound; on Beans and Peas, 8 cents per pint and 15 cents per quart, and on Corn, 6 cents per pint and 10 cents per quart.

SIGN YOUR NAME AND ADDRESS—Many orders reach me every reason in which the Name and Post Office Address are lacking. It is of course impossible for me to fill these orders until they are identified.

SHIPPING DIRECTIONS—Shipping directions should accompany all orders. Where no particular mode of transportation is designated I shall exercise my best judgment, and forward by express, freight or mail, as may seem most advisable.

MY SPECIAL OFFER of Vegetable and Flower Seeds, in Packets only. The collections may be made up of either Vegetable or Flower Seeds, or partly of each, at the option of the purchaser. Seeds by Weight or Measure Cannot be Included, as on these I cannot make any discount.

For 25 cents the purchaser can select seeds in Packets to the value of 30 cents. For 50 cents the purchaser can select seeds in Packets to the value of 70 cents. For \$1.00 the purchaser can select seeds in Packets to the value of \$1.60. For \$2.00 the purchaser can select seeds in Packets to the value of \$3.25. For \$3.00 the purchaser can select seeds in Packets to the value of \$5.00.

I issue a special Wholesale List for Market Gardeners, Truckers, and those buying more than \$5.00 worth of Garden Seeds. Send for it, if this means you.

Awaiting your commands, I remain,

Yours truly,

Theo. Koss



Realizing the vast importance of this branch of our business, we devote our careful attention to the growth and selection of the best farm seeds of all sorts.

RED KAFFIR CORN.

This variety grows taller and ripens earlier than the White Kaffir Corn; the stalks are more slender, and very juicy and leafy. Lb., 8c; 10 lbs., 50c; 100 lbs., \$3.50.

WHITE KAFFIR CORN.

Stocky and perfectly erect, foliage broad. The seed heads grow from 10 to 12 inches in length and the product of grain will average 60 bushels to the acre. Lb., 6c; 10 lbs., 40c; 100 lbs., \$3.00.

JERUSALEM CORN.

Claimed by many to be an improvement on Kaffir Corn, as it is a surer crop in unfavorable seasons. Produces a large crop of foliage which is of very good quality. Seed, white and nearly flat. Yields a good grain crop also. Three to four pounds will plant an acre in drills, 40 to 50 lbs. broadcast. Lb. 8c; peck, 50c; bu. (50 lbs.), \$1.75.

YELLOW MILO MAIZE.

Growth is tall, 9 to 12 feet, stooping from the ground. It sends out shoots also from the joints. Seed heads grow to great size, often weighing three-fourths of a pound, sometimes a full pound after ripe. On account of its branching habit this grain should be planted in 4 or 5 rows, and 2 to 3 feet in the drill, 2 plants in a hill, 3 to 5 feet apart. Lb., 8c; 10 lbs., 55c; 100 lbs., \$4.00.

WILD RICE.

The only one of our native plants furnishing food for wild fowl, ducks, geese, etc. Sow in water having a mud bottom. Pkt., 5c; lb., 20c; 5 lbs., 85c.

BROOM CORN.

Improved Evergreen—The brush is noted for its fine quality, good length and handsome appearance; cut before the seed is ripe it is a beautiful pea-green color. Per lb., 8c; 10 lbs., 45c; 25 lbs., \$1.00; 100 lbs., \$3.50.

SUGAR CANE.

Early Amber—The earliest and most popular variety, and makes the finest quality of amber syrup and excellent sugar. Lb., 5c; 10 lbs., 40c; 100 lbs., \$3.50.

THOUSAND-HEADED KALE.

Thousand-Headed Kale is now being grown in larger quantities than Rape in England. The seed can be sown early in April or any time thereafter until mid-summer. The plants grow to a height of 3 to 4 feet, and are so covered with small whorls of leaves that the name Thousand-Headed Kale has been given it. It will yield a larger crop than the Dwarf Essex Rape, as it branches out from the bottom and grows very rapidly. It is greatly relished by hogs, cattle and sheep. The plant is not affected by drought and flourishes in all kinds of soil. In England this seed is being sown broadcast on pastures with grass seeds, using about 1 pound of seed per acre, though if sown alone it should have about 3 pounds per acre. Per large pkg., 5c; $\frac{1}{4}$ lb., 10c; lb., 35c, postpaid. By express, 5 lbs or more, at 25c per lb.



Kaffir Corn.



JERUSALEM CORN.

MILLETS.

There is nothing like millet to cover up shortage in your hay crops. It can be sown up to the middle or end of July and makes a valuable catch crop. Grain bags 15 cents each extra. Prices subject to market changes.

Common Millet—Very early, grows 2 to 3 feet high, foliage broad. Lb., 5c; 5 lbs., 15c; 10 lbs., 25c; bu., 90c.

Hungarian (Grass) Millet—A valuable forage plant, similar to common millet. Lb., 5c; 5 lbs., 15c; 10 lbs., 25c; bushel, \$1.00.

Hog Millet—A valuable variety, maturing at the same time as Hungarian Grass; very productive. Lb., 5c; 5 lbs., 20c; 10 lbs., 30c; bushel, \$1.10.

German Millet—Much better than Common Millet as it will produce double the crop. It grows 4 to 5 feet high, very leafy, seeds round, golden yellow. About two weeks later than Common Millet. Our Seed is southern grown and is much superior to northern grown seed as it yields more. Sow $\frac{1}{2}$ bushel per acre. Price, best grade, lb, 5c; 5 lbs., 20c; 10 lbs., 35c; bu., \$1.25.

Japanese Millet (Crus Galli)—Perhaps the most valuable introduction of recent years in the line of forage plants. Adapted to all sections and a great success wherever tried. It is very highly recommended by the U. S. Agricultural Department and by the Experiment Stations. It grows 6 to 8 feet high and produces immense crops of splendid feed, especially on moist soils. As high as 16½ tons have been reported from one acre, and it makes excellent hay, superior to corn fodder. A

splendid silage may be made by mixing two parts Japanese Millet with one of Sand Vetch or Soja Beans, forming a completely balanced ration for milch cows. This new Millet, like a number of other good

things in the vegetable line, came originally from Japan. There the people eat it largely for food. It is something entirely distinct from other millets, the seed having a very different appearance. It is now catalogued and recommended by all leading seedsmen, and one seed firm has extensively advertised it under the name of "Billion Dollar Grass." Sow broadcast, 12 to 15 lbs. per acre. 1 lb., 8c; peck, 50c; bushel, \$1.75.

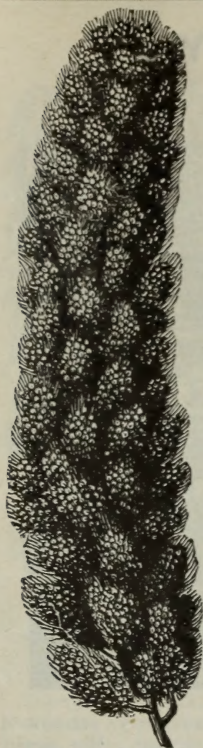
SUNFLOWER.

Mammoth Russian—The largest of all sunflowers. This is without doubt one of the best

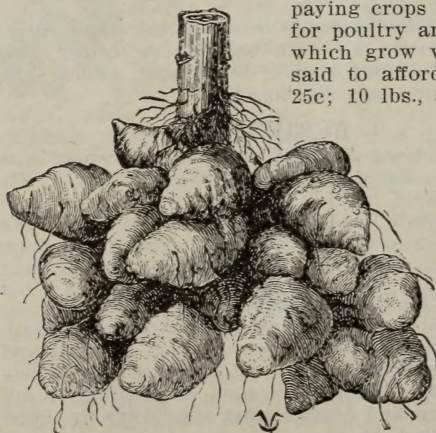
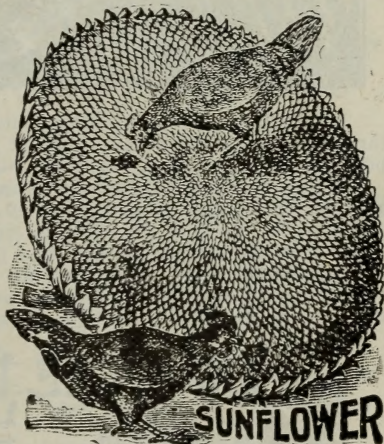
paying crops that can be raised. Seeds are the best of food for poultry and is much cheaper to raise than corn. Stalks, which grow very large make excellent fire-wood. It is also said to afford protection against malaria. Lb., 10c; 4 lbs., 25c; 10 lbs., 50c.

MAMMOTH WHITE FRENCH ARTICHOKES.

Grow much larger than the Jerusalem and yield more. Just as good otherwise. Artichokes are attracting much attention of late on account of their healthfulness. A splendid preventative of cholera. They are very easily grown and immensely productive, sometimes yielding as high as 1,000 bushels per acre. Cut the tubers up fine and plant the same as potatoes, only a little further apart. The hogs dig them for themselves. Peck, 45c; bushel, \$1.35; bbl. (enough for an entire acre), \$3.50.



German Millet.



MANDSCHEURI BARLEY.

Plumpest, Longest Head, Best Yields.



No barley equals the Mandscheuri for a money maker. It is an early, six-rowed variety with strong straw, bearing long, well-filled heads of plump grain. We never saw such long heads of barley as we found in the fields of Mandscheuri last summer.

Mandscheuri is an improved strain of Manshury but makes a stronger growth, has a plumper berry, and usually yields 10 to 15 bushels more per acre. The original seed was procured by the Wis. Ex. Station from Russia and was first sent out by the Station in 1895. Prof. Henry has all the time been loud in its praise and hopes that its cultivation will become general throughout all barley-growing states. Mandscheuri stood first in a comparative test of 37 varieties, and it doubles the yield of common varieties. Peck, 40c; bushel, \$1.25; 2½ bushels, \$3.00; 5 bushels, \$5.50.

BUCKWHEAT.

Silver Hull—A greatly improved variety. It is in bloom longer, matures its crop sooner, and yields twice as much as any ordinary sort; the grain is rounder, of a beautiful light gray color. The flour is white and more nutritious. Peck, 30c; bu., \$1.00; bag, 2½ bu., \$2.25.

Japanese—Ripens a week earlier than Silver Hull, stands up well, and makes better flour than any other kind of buckwheat. Peck, 30c; bu., \$1.00; bag, 2½ bu., \$2.25.

SPRING RYE.

Valuable as a "catch" crop to sow where winter grain has failed. Peck, 35c; bu., \$1.10; 2½ bu., \$2.50.

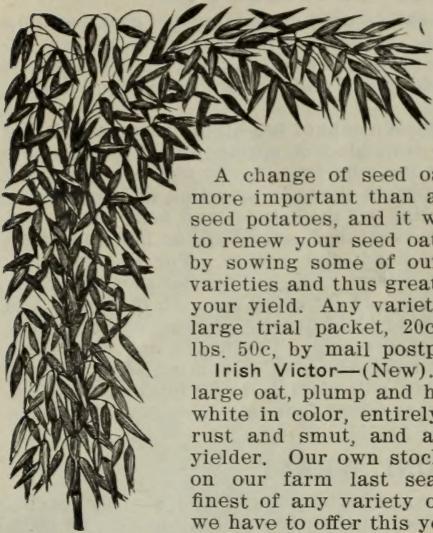
St. John's Rye—A perennial, yielding if sown early, a crop of fodder the first season and grain the next. Peck, 45c; bu., \$1.60; 2½ bu., \$3.70.

SPELTZ OR EMMER WHEAT.

A most wonderful new grain, somewhat similar to wheat. Will thrive on most any soil and yields immensely, very often more than barley and oats. It has given good satisfaction to my customers, and every farmer should try it. Peck 40c; bushel, \$1.25.



SEED OATS.



A change of seed oats is even more important than a change of seed potatoes, and it will pay you to renew your seed oats this year by sowing some of our improved varieties and thus greatly increase your yield. Any variety at 5c per large trial packet, 20c per lb., 3 lbs. 50c, by mail postpaid.

Irish Victor—(New). Is a very large oat, plump and heavy; pure white in color, entirely free from rust and smut, and an immense yielder. Our own stock as grown on our farm last season, is the finest of any variety of oats that we have to offer this year. It will please every one who gets it. Our

field of Irish Victor was the finest field of oats to be seen anywhere in this section. Peck, 30c; bu., \$1.00; 5 bu. or over, at 90c per bushel.

Early Champion—Has comparatively short straw, matures a week or ten days earlier than other kinds, thus largely escaping the liability to rust. Its greatest value lies in its special adaptability as a nurse crop to sow with grass seed, as it does not stool as freely as some other sorts. Will not lodge on rich land. Henry Wallace, editor Wallace's Farmer, says: "I would rather risk growing grass seed with them than any other variety I know of." Price per peck, 25c; bu., 90c; 10 bu. or more at 80c.



The Lincoln Oats—Straw is stiff and strong, standing up. The grain is very handsome and valuable for feeding on account of its thin hull, heavy meat and soft nib. Seven bushels produced 817 bushels, 21 lbs., or an average of 116 bushels to each bushel sown. Peck 25c; bushel, 85c; 5 bushels, \$4.00; 10 bushels, \$7.50.

New Zealand Oats—It averages a trifle higher than other sorts, has very stiff, strong straw, never known to lodge. About one week later in maturing than the common round head oat, thus giving time to harvest the hay crop. They stool remarkably well, and thus require less seed to the acre; are almost entirely free from rust on all kinds of soil. Peck, 25c; bushel, 80c; 5 bushels, \$3.75.

Negro Wonder Oats—A very popular variety of oats in the South, as they are claimed to be almost drouth proof. They have stiff straw, heavy berry, and are very productive. While there are comparatively few black oats grown in this country, still they are said to be fully equal to the white for feeding, and are much preferred in England and other European countries. Better try a small field of them this year, and we feel sure that our customers, in the South especially, will be pleased with the result. Peck, 25c; bu., 85c; 5 bu., \$4.00.



Early Champion Oats.

of them this year, and we feel sure that our customers, in the South especially, will be pleased with the result. Peck, 25c;

SPRING WHEAT.

Saskatchewan Fife—This wheat is pronounced by the great milling kings of the Northwest the best. 50 bushels to the acre is not an uncommon yield. It is ten days earlier than the Common Fife, straw growing about a foot taller, standing stiff and strong. Peck, 50c; bushel, \$1.50; 2½ bushels, \$3.60.

Improved Pedigree Blue Stem—We cannot too highly recommend this grand new variety as being the best kind of spring wheat in existence and are sure it will please everyone who tries it. It was originated by Mr. L. H. Haynes, who has spent eight years in selecting and improving it in his garden, each year choosing all the largest and best heads, and discarding all the balance. This continued selection has had the effect of improving it in vigor, size of head, and quality. For the past few years he has been growing it as a farm crop, taking the greatest pains each season to keep it strictly pure and by going through the fields and removing everything that was not of ideal quality, he now has a variety which is sure to please all wheat growers. The heads are very large and well filled out, the kernel is hard, the plant stools greatly, and, under ordinarily favorable conditions, will yield 40 to 50 bushels per acre. It is an improvement on Blue Stem wheat, but fully five days earlier in maturing. Peck, 50c; bu., \$1.50; 2½ bu., \$3.60.

MACARONI WHEAT.

Very highly recommended for semi-arid regions, and already largely grown in the northwest. Peck, 50c; bushel, \$1.50; 2½ bushels, \$3.60.

FIELD PEAS.

These are very valuable for fattening stock, and can also be grown for soiling purposes, but are of greater value for fodder when fed as ground feed, or the vines can be cured for hay, which is of great nutritive value. They can be sown alone or with oats. If sown alone it takes about 2 bushels per acre, and if sown with oats 1 bushel of Peas and 1½ bushels of Oats are required. Prices subject to market changes.

Scotch Beauty Peas—Best blue field peas. Will yield an immense crop of superior quality. Per peck 60c; bu., \$2.25; 2 bu. or more, \$2.00.

White Canada Peas—More used than any other. Per peck, 60c; bushel, \$2.00; 2 bushels or more, at \$1.85.

Whip-Poor-Will Cow Peas—The most highly valued plant in the south for fodder and reclaiming old or worn out land as it is a leguminous plant of special merit as a fertilizer. The vines when fed green make the best fodder and are very nourishing. The Whip-poor-will is the most popular sort and yields a good crop both of fodder and peas. When ripened the ground peas make the best cattle fattener. Peck, 75c; bu., \$2.50.

Lathyrus Sylvestris (Flat Pea). A perennial forage plant; it grows well on unimproved sandy soil; yields superior forage for all farm stock and excellent as a fertilizer. Oz., 15c; ¼ lb., 40c; lb., \$1.35.

BOSTON PEA OR NAVY BEANS.

Plant after the danger of frost is past, in dry, light soil. Best crops are grown in rich soil; but beans do well in ordinary soil. Cultivate with one horse cultivator, or a hoe, frequently, when plants are dry, but never when wet. Plant 1½ bushels to the acre in hills, same as corn, or in drills. Hand picked, Quart, 15c; peck, \$1.00; bushel, \$3.50.

Soja Beans—These beans rank right next to Cow Peas and Red Clover, for sowing as a fertilizing crop. Their roots find and store the nitrogen. It is a splendid green Fodder; will produce 25 bushels of beans per acre. Roasted and coarsely ground it is a coffee substitute. Sow broadcast ½ bushel per acre, or in drills 3½ feet apart by 18 inches; 3 in a hill. ½ pk., 40c; 1 pk., 75c; bu., \$2.50.

Velvet Bean—A strong-growing, prolific forage crop from the south, of the Soja and Cow Pea class. It will grow 12 feet, and both vines and pods are eaten by all stock. Sow like Soja Beans. Plowed under they are a great soil enricher. ½ pk., 35c; 1 pk., 65c; 1 bu., \$2.35, bags included.

Lentils—A leguminous annual. Succeeds best in dry, sandy soil. Splendid pigeon food and also used extensively for soups. Lb., 25c.

Lupins, Yellow—Succeeds well in the poorest soil, and is exceedingly valuable for plowing in to improve sandy soils. It makes good forage, either green or as hay. The seeds are very fattening when used with hay. Sow in the Spring when the ground has become warm, at the rate of 90 pounds to the acre. Lb., 10c; 10 lbs., 80c; 100 lbs., \$7.50.



GIANT SPURRY.

Spurry is an annual plant, extensively cultivated in Europe as a winter pasture for cattle and sheep. It grows so well on poor, dry, sandy soil that it has been called "the clover of sandy land." It is of very rapid growth and is sown the latter part of March and in April or May at the rate of 10 pounds per acre, if wanted for hay. The seed is sown broadcast, and covered lightly by harrowing. It germinates quickly and in 6 or 8 weeks is ready to cut. It is usually cut for hay the first time, and pastured afterwards for the rest of the summer. Lb., 10c; 5 lbs., 45c; 10 lbs., 85c; 100 lbs., \$7.00.

AUSTRALIAN SALT BUSH.

This forage plant from Australia is a wonder for the alkali plains of the West. Strong grower during the hottest and driest weather. Sow in early spring 1 lb. of seed per acre, in hills 8 inches apart, rows 24 inches apart. Salt Bush is much relished by stock, especially sheep. Yields 20 tons of green fodder per acre. Plant is perennial. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.



WONDERFUL SAND VETCH. (Or Winter Vetch).

A comparatively new forage plant in this country, which has proven of highest value and is highly recommended by the U. S. Agricultural Department. Though it succeeds and produces good crops on poor, sandy soils, it is much more vigorous on good land and grows to a height of 4 to 5 feet. It is perfectly hardy throughout the United States, remaining green all winter. It is the earliest crop for cutting, and a full crop can be taken off the land in time for planting spring crops. Every dairyman and stock-breeder in the United States should have a field of it, and if you try it once you will never be a season without it. It is exceedingly nutritious, much more so than Clover, is eaten with relish, and may be fed with safety to all kinds of stock. Also valuable for a hay crop. Sow one-half bushel per acre either in spring or fall. Per lb., 12c; 10 lbs., \$1.00; 50 lbs., \$4.50; 100 lbs., \$8.50.



Russian Flax.

RUSSIAN FLAX.

It will pay you to sow nice, pure high grade flax seed. It is one of the most profitable crops, especially on new land. When grown for seed without regard to fibre, sow from 2 to 3 pecks of seed to the acre. If fine fibre is wanted, sow from $1\frac{1}{2}$ to 2 bushels to the acre, so as to grow clean, straight, slender straw. Peck, 50c; bushel, \$1.75.

BLUE FIELD POPPY.

Ounce, 5c; $\frac{1}{4}$ pound, 10c; 1 pound, 25c; 5 pounds, \$1.00.

TEOSINTE.

A fodder plant grown largely in some parts of the country. Somewhat resembling corn in appearance, but the leaves are much longer and broader, and the stalks contain sweeter sap. In its perfection it produces a great number of shoots, growing as much as 12 feet high; very thickly covered with leaves, yielding such an abundance of foliage that one plant is considered sufficient to feed a pair of cattle for 24 hours. 85 stalks have been grown from one seed, attaining a height of 11 feet. Horses and cattle eat it as freely as young sugar corn. Seed is scarce this year, but we advise all those interested to give it at least a trial, so as to be ready to plant larger quantities hereafter. Large pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 30c; lb., 90c; 2 lbs. (sufficient for 1 acre), \$1.75.



Teosinte.

SEED POTATOES.

In Every Sense that the Word "SEED" Should Imply.



Extra Early Ohio.

than for any other variety. Every potato grower knows what it is, and knows just about what it will do in his locality. It is the standard extra early the country over, and other varieties are measured by it. We have an extra choice strain of Early Ohio. We will venture to say that not one farmer in ten, the country over, who thinks he has Early Ohio has pure stock. Most of them do not know that they are mixed. But Early Ohio is an old variety and has become frightfully mixed throughout the United States. Farmers and market gardeners, better sell off your own Ohios and get some of our pure improved, grown from Red River Valley seed. Peck, 40c. bu., \$1.25; bbl., \$3.25.

BLISS TRIUMPH. The earliest potato in existence.

A handsome round variety which is by far the earliest variety in the world, maturing a week before the Extra Early Ohio, and is wonderfully productive. The tubers are not large, but are of a nice medium size for early use, and a beautiful red color. For several years past it has been the most popular variety in the southern states and in the Bermudas, and hundreds of carloads are shipped to the northern market and bring fancy prices. There is always such a demand for them that the seed is scarce. It is a

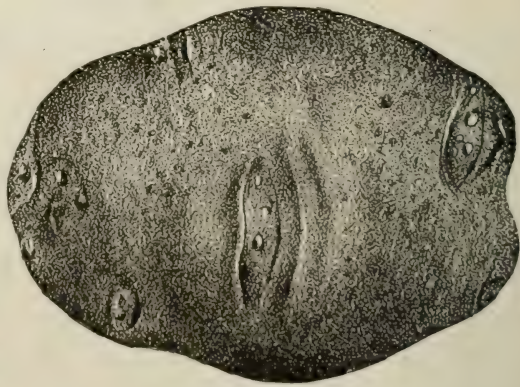
ORDER EARLY.

Do not put off ordering Seed Potatoes until you want them, but send in your order as soon as possible. This will give us plenty of time to get them ready for shipment.

vigorous grower and we recommend it for the first early market or family use. Per peck 50c; bushel, \$1.50; barrel, \$3.75.

Thoroughbred—This is an elegant new Potato of the Early Rose type, and in every respect just as good, if not better, than this when first originated. The skin is of a beautiful pink color, shape oblong to long and very regular; the eyes, although large, are even with the surface. It is a rank and free grower of vines and tubers, with so much vitality and vigor that it is certain to make a good crop even in seasons of severe droughts. The tubers grow large to very large, and are of handsome appearance, and the table qualities are of the very best. It is a seedling of the Early Rose and claimed to be 10 days earlier than this. Besides being so early it is an enormous yielder, and, in fact, all who have tried it consider it a perfect Potato for early marketing; being of such extreme earliness, very large size and handsome form, they will always sell at first sight on the market. Peck, 35c; bu., \$1.25; bbl., \$3.25.

We exercise care in the selection of our Seed Potatoes, and all the varieties offered in this catalogue are secured from points where experience has shown that the best type of the variety grows.



Thoroughbred.

THE FREEMAN POTATO.



The Potato that
sold for
\$3.00
per pound
when first
introduced.
It has more
than surpassed
all claims
made for it.

The Freeman Potato has fully realized the glowing predictions which I made for it at the time of its introduction. It proved to be a rival of the famous Early Rose, and my customers have made money out of it. The Freeman is a strong grower, containing fresh, vigorous blood. It is early in reaching maturity and enormously productive, and is universally admitted to be the finest flavored potato on the market. People say that when once used on the table it is sure to remain there, on account of its superlative excellence. Peck, 35c; bushel, \$1.25; bbl., \$3.25.

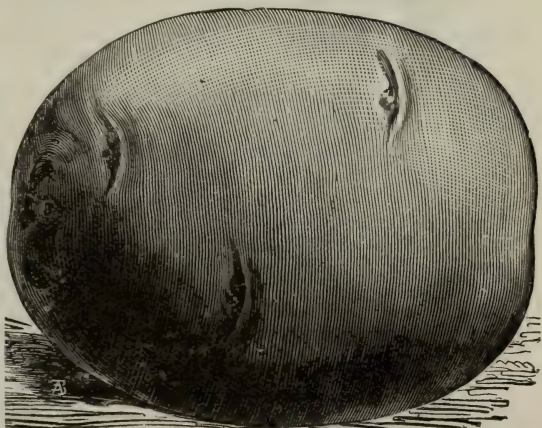
Carman No. 3—This handsome main crop potato is of large size, yielding immense crops of uniform size and shape. It is of perfect form, almost every potato being of same size and shape, and averaging nearly one pound each in weight, in good seasons. It has but few eyes, and they are shallow; the skin and flesh are extremely white and its cooking qualities are very fine. It is a remarkably handsome potato, enormously prolific, and will please all potato growers. Keeps well. Per peck, 40c; bu., \$1.35; bbl., \$3.50.

Sir Walter Raleigh—The two greatest money makers of recent years have been Rural New Yorker No. 2 and Carman No. 3. Both originated with the late E. S. Carman of the Rural New Yorker. Since then Sir Walter Raleigh has been brought forward as "Mr. Carman's Best." The introducers say: "In most respects it closely resembles Rural New Yorker No. 2, but is more uniform and yields practically no small tubers, every one being marketable. It is unquestionably the best of its type."

Sir Walter is one of our standards now for main crop, and it has come to stay. Farmers who plant this variety are practically certain of getting big returns on their investment, as it invariably yields big crops and the potatoes will always sell. Peck, 50c bushel, \$1.50; barrel, \$3.75.

SEED POTATOES BY MAIL.

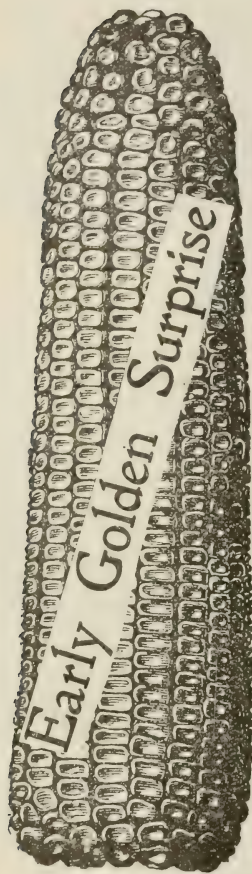
Many seed dealers make it a practice to send Potato eyes by mail. From actual experience, however, we have learned that a better and more satisfactory method is to send whole tubers by mail. Potato eyes soon after being cut lose a great share of their vitality, by wilting and drying up, and those that are not spoiled before planting time make only a feeble growth. We send medium sized tubers by mail of which 3 to 5 Potatoes will make a pound, with about 50 to 80 eyes. These Potatoes can be cut any time when ready for planting, and the whole vitality is thus saved. Price for all varieties of Seed Potatoes, prepaid by mail: Pound, 25c; 3 Pounds, 65c.



Sir Walter Raleigh.

CHOICE SELECTED NORTHERN-CROWN SEED CORN.

The Seed We Offer is Grown for this Purpose, Carefully Selected and Shelled.



We have for years made a careful study of the best varieties of corn grown in the United States, and fully appreciating the great importance to the farmer of **good field crops**, especially seed corn, we hold that corn grown in our section of the United States is far preferable for planting in the eastern, middle and southern states, to the western grown. Corn grown in our section will mature sooner, and make a far better yield than the western grown. Our seed corn will do better in the west than their own to plant. We have given particular attention to this department of our business, and have made **selection and improvement of farm seeds a specialty**, exercising great care to secure the best varieties, thoroughly cleaned, and of the finest possible quality.

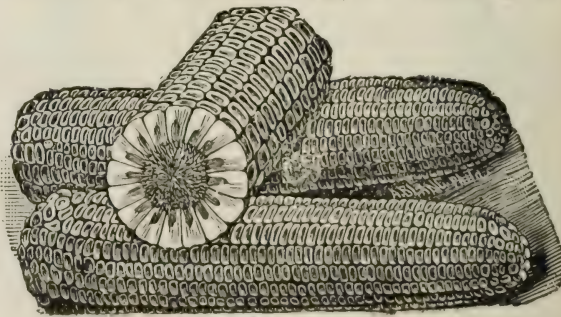
KOSS' EARLY GOLDEN SURPRISE.

Unapproachable as a yielder, it withstands the harshest weather and when shelled this corn produces a superior quality on account of extreme smallness of cob and depth of grain. The grains are of a rich golden color, very deep, and profitable on account of small per cent. of waste of cob. The cob is so small that 35 pounds of ears produced $31\frac{1}{2}$ pounds of shelled corn. The Corn is a vigorous grower, with short, strong stocks and an abundance of deep green foliage, which makes it an excellent fodder corn. It matures uniformly in 90 days from planting, and all points considered it is the best field Corn in cultivation. Golden Surprise is the greatest money earner yet introduced to the American farmer. There can be nothing of greater importance to him than to increase the yield and feeding value of Corn. Early Golden Surprise will give that result. Quart, 15c; peck, 65c; bu., \$2.00. $2\frac{1}{2}$ bu., \$4.50.

Iowa Gold Mine—A handsome early Corn, ripening a few days after Pride of the North; ears are of good size, very even and uniform in shape, cob small, with very deep grains of a bright golden color, which dry out very quickly as soon as ripe. Ears have been shelled of this variety which produced 64 lbs. of shelled Corn and only 6 lbs. of cobs to the bushel. Quart, 15c; peck, 50c; bu., \$1.75; $2\frac{1}{2}$ bu., \$4.00.

Iowa Silver Mine—A very popular White Dent Corn, maturing medium early. The stalks grow seven to eight feet high, in many cases yielding two and three good ears, which are set about four feet from the ground. Quart, 15c; peck, 50c; bushel, \$1.75; $2\frac{1}{2}$ bushels, \$4.00.

Pride of the North—No variety of corn has been more extensively grown in the North-western states than this. It is early, with a fairly large ear and small cob closely set with deep kernels; color bright yellow. It will shell 60 to 64 lbs. per bushel of 70 lbs. of ears, 14 to 16 rows often placed irregularly on the small red cob. Quart, 15c; peck, 45c; bushel, \$1.50; $2\frac{1}{2}$ bushel, \$3.50.



Pride of the North.

KOSS' GOLDEN BEAUTY CORN.

Has the Largest Grain and Smallest Cob of any Corn in Cultivation.

This famous corn still retains its popularity as an exceedingly early and prolific variety, always maturing in 90 days; often shelling 62 pounds of grain from 70 pounds of ears. Kernels closely set, large, of deep orange color; cob very small; stalks about 7 feet in height. This is probably the best Dent corn for general cultivation in the North, and is now largely used in the South and West, as it matures its crop before the hot winds affect it. We offer pedigree seed grown from the original stock with care. This corn is not fully appreciated until the large yield and small percentage of cob is carefully noted. There is no yellow Dent corn yet discovered that can take the place of this most valuable variety. It is a safe corn for any section of country, never disappoints the grower by maturing too late, yields more corn acre for acre than any other, and has by far the most satisfactory record of any yellow Dent corn ever introduced. Quart, 15c; peck, 65c; bushel, \$2.00; 2½ bushel, \$4.50.

Angel of Midnight—An extra early yellow flint, 8-rowed variety. The ear is perfect in shape; length 10 to 13 inches. Rows straight and even, and filled from tip to tip; stalks are of medium size. Quart, 15c; peck, 45c; bushel, \$1.50; 2½ bushel, \$3.50.

Koss' Golden Beauty Corn

Wisconsin White Dent—The best white Dent for this northern latitude, 16 to 20 rows, small cob, large kernels. Qt., 15c; peck, 50c; bu., \$1.75; 2½ bu., \$4.00.

White Cap Yellow Dent—This now famous corn possesses the earliness of Pride of the North, and will produce a greater yield on thin, poor land than any other corn. Grows about 6 to 7 feet in height, with abundant foliage and fine large ear. The tip ends of the grains are white, the inside yellow, making it of a beautiful color, both when on cob and when shelled. Quart, 15c; peck, 50c; bu., \$1.75; 2½ bu., \$4.00.

RED COB ENSILAGE CORN.

This superior ensilage corn I can recommend as being the heaviest cropping variety in cultivation, producing from 50 to 75 tons per acre. It has been thoroughly tested in all dairy sections of the country with best results. It is a pure white Dent corn of large size and handsome appearance, growing on a red cob. The fodder is sweet, tender, juicy and contains more nourishment than any other variety. It grows 13 to 14 feet in height, taking strong hold in the ground, standing well up and resisting storms of all kinds to a remarkable degree. Peck, 30c; bu., \$1.

BRAZILIAN FLOUR CORN.

A grand stooling sort; each kernel produces several stalks, each stalk bears two or three beautiful white ears which make a flour equal to wheat. It produces an immense amount of fodder for feeding stock. Qt., 20c; peck, 75c; bushel, \$2.50.



ENSILAGE CORN.

RAPE. True Dwarf Essex.

The main secret in the successful raising of sheep for mutton, for which the English are so famous, lies undoubtedly in the very general use of Fodder Rape for feeding them.

After the corn is harvested and before winter sets in there is need of nutritious green fodder, especially for sheep. Dwarf Essex Rape is easily grown and perfectly hardy, and possesses remarkable fattening properties. One acre will pasture thirty-six head two months, and lambs will make a gain of 8 to 12 pounds a month. 'They soon weigh like lead.' Pigs and cattle are also very fond of it.

The plant is a rank grower and should have heavy manuring, as well as high cultivation. Any corn soil will grow Rape. Sow the seed during the third or fourth week in June; it can then resist drouth, and the crop can be ready to feed at a season when it is most needed. By sowing different pieces several weeks apart a continuous supply of good feed can be had. When sown in June the Rape will have to be fed during August, though if the first crop were cut about four inches from the ground, there would be an aftermath or second growth that would be useful after that time. For the breeding flock a piece should be sown about the first week in July, with some even later, and the chances taken on its withstanding the drouth. It does well sown with oats. After the oats are cut the Rape grows rapidly.

If the soil is rich and clean, sow broadcast; if not so clean sow in drills and cultivate as for corn. Rape is especially adapted for a catch crop, succeeding well when for any cause other crops have failed, as it, like turnips, makes its growth late in the season, can be sown on stubble, and will furnish excellent pasturage when much needed in the fall. When sown broadcast use 5 pounds, and if in drills, 3 pounds to the acre. 1 lb., 10c; 12 lbs., 75c; 25 lbs., \$1.35; 100 lbs., \$5.00.



PENCILARIA—(Penicillaria).

A wonderful forage plant of great value to all stock farmers. It is unexcelled if equalled for its quick growth, immense size and splendid quality. The seed is small, about one-eighth the size of a grain of wheat; it should be planted about the first of May, and will grow and stool or tiller out surprisingly fast. Its growth is truly luxuriant, the broad foliage resembling corn leaves and if allowed to develop will attain a height of 12 to 14 feet and bears cylindrical heads from 12 to 20 inches long, closely set with thousands of tiny seeds, which are greatly relished by poultry. A crop of this when nearing maturity looks like a field of giant timothy 12 to 15 feet high. The usual way of growing it, however, is to mow the crop when 3 or 6 feet high, and it will immediately start again and it can be mowed 4 to 6 times during the season. If allowed to grow until the flower heads begin to develop before cutting, it will yield the heaviest crop of any fodder plant we know of, and it is greatly relished by all kinds of stock either in its green or dry state. Sow seed very thinly in

drills 24 to 36 inches apart. Every farmer, and in fact everyone who keeps a cow, a horse or hogs should try it if they wish to grow an immense crop of fodder cheaply on a small amount of ground. Per pkt., 5c; $\frac{1}{4}$ lb., 15c; 1 lb., 35c; 3 lbs., \$1.00.

GRASS AND CLOVER SEEDS.



Meadow Fescue.

I am most particular with my grass and clover seeds, to procure them from a source where there is no danger of foreign seeds having become mixed with them, as I fully appreciate the great damage which some of these will create if once introduced into the soil. I guarantee that all my grass and clover seeds are of the finest quality and extra clean. Prices subject to market fluctuations.

1. **Meadow Fescue, or English Blue Grass**—Succeeds well in almost all soils, from high, dry land to moist, standing the dry summer heat excellently. It is valuable as pasture grass, being one of the earliest in the spring and the latest in the fall. It is very nutritious and greedily eaten by all kinds of stock, and very fattening. It is hardy, never grows in tufts, and being tender and succulent, makes excellent hay. It is a perennial, 2 to 3 feet high, flowering in June and July. Pound, 10c; bushel, \$1.25; 100 lbs., \$7.00.

2. **Orchard Grass**—One of the most valuable of all pasture grasses, coming earlier in spring and remaining later in autumn than any other. It grows about 2½ feet high, producing an immense quantity of leaves. It grows in tufts, and is therefore not adapted for growing alone, but should be sown with Red Clover, Tall Meadow Oat Grass, or Rye Grass. Pound, 18c; bushel, \$2.00; 100 lbs., \$13.50.

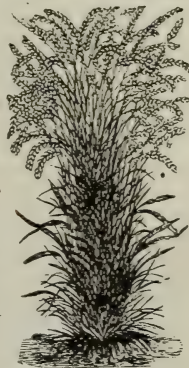


Orchard Grass.

3. **Tall Meadow Oat Grass**—For either hay or permanent pasture. Does well on any soil, but of special value on clay land. Grows tall, and therefore desirable for meadow. Does not winter kill. Seldom sown alone, but should be included in all mixtures. Lb., 18c; bu., \$2.40, 100 lbs., \$16.00.

4. **Red Top**—Sown largely in marshy land and sloughs in the West. In the East it is one of their principal sorts, but is not so highly valued here. It makes a fine, close turf of fair quality when not allowed to go to seed. Solid or Fancy clean seed. Lb., 12c; 10 lbs., \$1.00; 100 lbs., \$9.00.

5. **Perennial Rye Grass (or English Rye Grass)**—A nutritious permanent grass for meadows and pasture, or for mixing with other grasses for lawns. Does well on sloping banks, as its roots are fibrous and mat-like. Is especially adapted for pastures, as it will endure close cropping and is of strong, quick and successive after-



Perennial Rye Grass.

growth. Does well on almost any land, but prefers rich or moist soil, such as will produce a good corn crop. Sow 20 lbs. per acre. Pound, 10c; bushel, \$1.20; 100 lbs., \$6.50.

6. **Italian Rye Grass**. An annual variety of above, which can be depended on to give a large crop the first year. Valuable for sowing with crimson clover as a catch crop on red clover fields where clover has winter killed. Does well on any good clover land. Sow 20 lbs. per acre. Pound, 10c; bu., \$1.20; 100 lbs., \$6.50.

7. **Kentucky Blue Grass**—Very valuable and exceedingly popular in some sections of the country as a pasture grass. It is productive and unusually early in spring, furnishing delicious food for all kinds of stock. It is not easily affected by drought or frost, is suited to a great variety of soils, succeeding best on a moist, rich meadow. For permanent pastures it is particularly valuable, being of dwarf growth, therefore not so well suited for meadows. Unexcelled for Italian Rye Grass lawns. Our seed is all new crop, and the best grade, "Fancy Cleaned." Pound, 15c; bushel, \$1.75; 100 lbs., \$12.00.

8. **Canadian Blue Grass**—The hardiest grass in cultivation. All grazing animals eat it greedily; cows fed on it produce very rich milk. It is especially relished by sheep. It is an excellent grass for dry, sandy, thin soils and banks, and for covering the surface of rock soils. Lb., 12c; bu., \$1.40. 100 lbs., \$9.00.



Tall Meadow Oat Grass.



9. **Rough Stalked Meadow**—A strong growing, hardy grass, well suited for deep, moist soils, but of little value on soil which is poor or dry. Sow about 20 lbs. per acre. Pound, 35c; bushel, \$4.50; 100 lbs., \$30.00.

10. **Creeping Bent Grass**—Of special value for pasture and low ground. Starts early, deep rooted and a valued sort for holding sloping ground or terraces together, as its roots form a compact mass. Sow 15 lbs. per acre. Lb., 20c; bu., \$2.25; 100 lbs., \$15.25

11. **Tall Fescue**—A valuable perennial grass, very productive and nutritious. It is native to moist, heavy soil, where it probably does best, but it succeeds well on any good soil, wet or dry. If used alone sow 40 pounds per acre. Pound, 30c; bushel, \$3.25; 100 lbs., \$28.00.

12. **Meadow Foxtail**—A fine grass for permanent pastures, and should be sown in place of timothy in mixtures with clover and other grasses. Its growth resembles timothy and it bears no resemblance to the wild grass commonly called "foxtail." It is considered of better quality for hay and pasture than timothy. Sow 14 lbs. per acre. Pound, 25c; bushel, (12 lbs.), \$2.75; 100 lbs., \$20.00.

13. **Water Meadow**—Of great value for land which is more or less under water at times. Grows rank and coarse, still it is nutritious. Pound, 30c; bushel (14 lbs.), \$3.70; 100 lbs., \$24.00.

14. **Sheep Fescue**—A small, tufted, hardy grass, forming a cluster of narrow cylindrical leaves, of value in mixture for lawns or dry soils and under shade. Sow about 35 lbs. per acre. Pound, 15c; bushel, \$1.75; 100 lbs., \$11.00.

15. **Crested Dogtail**—For permanent pastures on high land and dry, hard soils, it is invaluable. Makes a close, thick sod, and is valuable for lawns. Sow 15 pounds per acre. Pound, 30c; bushel, \$4.25; 100 lbs., \$27.00.

16. **Yellow Oat Grass**—An excellent variety for pastures and meadows. Per lb., 65c; bu., \$8.25; 100 lbs., \$55.00.

17. **Fowl Meadow Grass**—A valuable grass for sowing on low, wet lands that are occasionally overflowed. Per lb., 30c; bushel, \$3.00; 100 lbs., \$24.00.

18. **Bromus Inermis**—This useful grass, also called Hungarian or Smooth Brome Grass, grows sometimes to a height of 3 or even 5 feet. It is a native of Hungary. It has done well in America, especially on dry, arid soils, in which situations its drought-resisting qualities are seen to advantage. It is a hardy perennial, well adapted to cold climates and exposed situations. It is claimed for it that it will succeed in a wider range of temperature than any other grass, and that it will produce satisfactory crops on land too poor to support timothy and the other agricultural grasses. It has had wide trial and unquestionable endorsement, both by the experiment stations and by individual farmers, and as already said will prove to be a boon to many farmers. Weight of seed, 14 pounds to the bushel. Sow 20 to 35 lbs. per acre. Pound, 15c; bushel, \$1.85. 100 lbs., \$12.00.

19. **Wood Meadow Grass**—One of the best varieties to sow in shaded situations, such as orchards and parks, for either hay or pasturage. Sow about 30 lbs. to the acre. Pound, 35c; bushel, \$4.75; 100 lbs., \$32.50.

20. **Timothy**—Market price, about 5c per lb.; peck, 45c; bu., \$1.65; 100 lbs., \$4.00.



Bromus Inermis.

GRASS AND CLOVER SEEDS.

Since the last three or four years all the meat and dairy products have commanded a very high market price, so that most all intelligent farmers have given this more attention than ever before. The best breeds of cattle and swine obtainable are secured, almost regardless of cost, to bring the herds up to the highest point of perfection, which is business-like and surely a step towards success. As necessary as good breeding stock is, so essential are good Grasses and Clovers for your stock to feed and thrive on. Good Pastures and Meadows are the foundation for all successful Dairy and Stock farming. More and better grasses are required than Timothy, Blue Grass or Red Clover, which are in most sections the only grasses sown. The more grass we grow, the more cows and cattle we can feed, and the larger the income. Of all crops produced, the grass crop of the world is by far the most important. No other crop is so necessary to the sustenance of the various forms of animal life, and in no other way can soil fertility and soil moisture be so easily maintained as by sowing the proper kinds of Grass and Clover Seed.

CLOVER SEED.

No other plant is of such importance to agriculture as clover, and this not only on account of its great value for pasture and for hay, but by far its greatest value comes in as a soil reclaimer, as it restores fertility to the land that has been exhausted by continuous cropping. Clover is the foundation to all successful farming and is unquestionably the most useful plant that can be grown on the farm.



Crimson Clover.

21. **Medium Red Clover**—Market price about 15c per lb.; peck, \$1.90; bu., \$7.95; 100 lbs., \$13.00.

22. **Mammoth Red Clover**—Market price about 15c per lb.; peck, \$2.10; bu., \$8.15; 100 lbs., \$13.25.

23. **Silesian Red Clover**—Extremely hardy. Lb., 18c; peck, \$2.50; bu., \$9.00; 100 lbs., \$13.50.

24. **White Clover**—It is the most hardy of any variety of clover, and as it is of a creeping habit it is desirable for sowing on terraces or sloping grounds. Price for our choicest quality, per lb., 30c; 5 lbs., \$1.40; 10 lbs., \$2.50.

25. **Seradella**—For very dry soils. Lb., 15c; 10 lbs., \$1.25; 100 lbs., \$10.00.

26. **Crimson Clover (also called Giant Incarnate)**—This is an annual variety in common use in the East and South for feeding green. The yield in fodder is immense, and after cutting it at once commences to grow again and continues until severe cold, freezing weather. It grows about 1 foot high, roots nearly black, leaves long, blossoms long, pointed and of a very deep red or carmine color. Lb., 12c; peck, \$1.50; bu., \$5.00; 100 lbs., \$7.75.

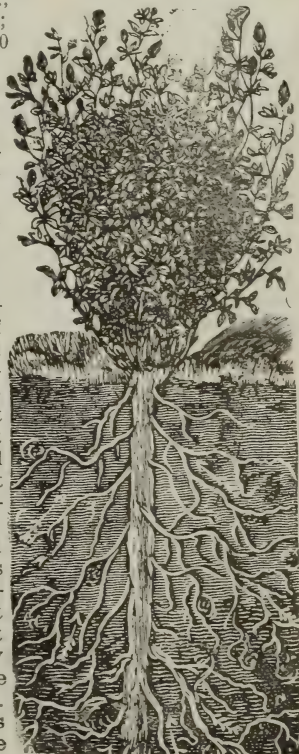
27. **Sand Luzerne**—For light sandy soil. Per lb., 25c; peck, \$3.00; bushel, \$11.50; 100 lbs., \$18.50.

28. **Alsike, or Swedish Clover.** This clover comes from the little province of Alaska in Sweden. It is a great favorite with bee raisers, and its flower has a sweet and agreeable odor. Lb., 20c; peck, \$2.65; bushel, \$10.00.

29. **Sainfoin Clover (also called Espercette Clover)**—An excellent but comparatively little known variety of special value for growing on light dry, sandy or limestone soils. Per lb., 12c; 10 lbs., \$1.00; 100 lbs., \$8.00.

30. **Alfalfa, or Luzerne Clover**—Under proper management it will yield 10 to 12 tons to the acre. All classes of stock are exceedingly fond of it. The roots are so long and grow so deep, frost cannot heave or throw them out in winter. One sowing will stand for 20 years, and instead of impoverishing the soil, enriches it. Grows on the thinnest sandy soil and thrives in greatest drouth. Sow broadcast about 25 lbs. to the acre. Comes up very spindling and slowly, and it is necessary to mow the weeds to give it light, but when once established the weeds will be smothered. Lb., 18c; peck, \$2.45; bushel, \$9.50; 100 lbs., \$15.00.

31—**Turkestan Alfalfa**—This has recently been introduced into cultivation by our Agricultural Department. It was found growing on the high table lands of Asia, and is especially adapted to the sudden changes of temperature that prevail there—intense heat at midday and very often frost at night, even in midsummer. It resembles the ordinary Alfalfa, described on this page, excepting that the leaves are shorter and are sparsely clothed with short hairs. Its cultivation has been quite successful in the arid regions of the West, and under conditions where Alfalfa or Luzerne fails the Turkestan Alfalfa will prove to be of the greatest value. Lb., 25c; peck, \$3.25; bushel, \$12.00; 100 lbs., \$18.75.



Luzerne.

GRASS IS KING.

No Grass, No Cattle; No Cattle, No Manure; No Manure, No Crops.



Koss' Grass and Clover Mixtures for Permanent Pastures and Permanent Meadows.

Most of our western farmers have not yet learned that a pasture or meadow of mixed grasses is far superior to clover and timothy alone. All authorities agree that for both pasture and hay, best results are obtained from the use of grass seeds in mixture. The reasons are that: First—A number of species will insure a much denser growth than the same number of seeds of one or two species, and prove less exhausting to the soil, since they live to a large extent on different constituents. Second—Seasons that affect some grasses adversely are favorable to other sorts. So that with mixtures a failure is practically impossible, provided, of course, the seed is good. We take great pains in selecting grass seeds, in order to secure the highest germination, and our mixtures are based on a full appreciation of the requirements of the different soils for which they are intended. We have made a study of this subject, and can furnish the seed of the best varieties of grasses mixed in proper proportions for any soil or climate. Please read carefully the descriptions of the various kinds of grasses and remarks below on sowing grass seeds, and don't be content to follow the old way that your father and grandfather did, but adopt new methods, sow improved varieties and double your crop.

WHEN AND HOW TO SOW GRASS SEED.

The most rapid way of obtaining a grass crop is to sow the seed early in the spring, by itself, without any grain or nurse crop, as the young grass plants are in no way protected by the grain, and when this is cut the young clover and grass is very tender. The cutting of the so-called nurse crop suddenly exposes the young grass at the hottest time of the year, and there is danger of the grass being burned out, while when the grass is sown by itself the young plants are hardened and more able to withstand the hot and dry sun. However, some farmers will want to sow seed oats with the grass seed, and we wish to call their attention to our Early Champion Oats as being especially adapted for a nurse crop on account of its not stooling so heavily as the other varieties. To obtain best results use only a moderate quantity of oats to sow with grass seeds.

After the ground is carefully prepared, the seed is sown broadcast, which can be nicely and evenly done and very quickly with the little hand seeders which we advertise. As seed is small it should not be covered very deeply, the natural covering which may take place after a shower of rain is sometimes sufficient. However, it is best and more certain to lightly harrow it in. The pressure of a common farm roller on Clover and Grass Seed covers the same lightly, and is one of the best means to assure the quick and even germination of the seed.

Grass and Clover Mixtures for Permanent Meadows.

Will make best quality hay every year, the mixtures containing such grasses as produce heavy growth and mature together.

No. 1. For high dry land on light soil.

Orchard Grass.	} 18 lbs. per acre. @
Kentucky Blue Grass.	
Perennial Rye Grass.	
Tall Meadow Oat Grass.	
Mammoth and Medium Red Clover.	10c per lb., \$1.80.
	100 lbs. for \$8.75.

No. 2. For high, dry land on heavy soil.

Tall Meadow Oat Grass.	} 16 lbs. per acre @
Yellow Oat Grass.	
Rough Stalked Meadow Grass.	
Italian Rye Grass.	
Luzerne and Red Clover.	12c per lb., \$1.92.
	100 lbs. for \$10.75.

No. 3. For low land on rich soil.

Meadow Foxtail.	} 16 lbs. per acre. @
Meadow Fescue.	
Creeping Bent.	
Rough Stalked Meadow Grass.	
Alsike Clover.	12½ c per lb., \$2.00.
	100 lbs. for \$11.00.

No. 4. For low land, subject to overflow.

Red Top.	} 18 lbs. per acre @
Tall Fescue.	
Creeping Bent.	
Rough Stalked Meadow Grass.	
Alsike Clover.	12½ c per lb., \$2.25.
	100 lbs. for \$11.25.

No. 5. For top seeding on swampy marsh land.

Water Meadow Grass.	10 lbs. per acre @
Tall Fescue.	18c per lb., \$1.80.
Red Top.	100 lbs. for \$16.00.

Grass and Clover Mixtures for Permanent Pastures.

Selected with a view to having a succession of grasses coming on constantly from earliest spring, through the dry summer weather, and through the fall. They are permanent and keep improving year after year.

No. 6. For high, dry land on light soil.

Meadow Fescue.	} 18 lbs. per acre @
Kentucky Blue Grass.	
Orchard Grass.	
Perennial Rye Grass.	
Yellow Oat Grass.	10c per lb., \$1.80.
Red and White Clover.	100 lbs. for \$8.75.

No. 7. For high, dry land on heavy soil.

Meadow Foxtail.	} 18 lbs. per acre @
Rough Stalked Meadow Grass.	
Orchard Grass.	
Tall Meadow Oat Grass.	
Perennial Rye Grass.	10c per lb., \$1.80.
Kentucky Blue Grass.	100 lbs. for \$8.75.

No. 8. For moist land on rich soil.

Luzerne and White Clover.	} 18 lbs. per acre @
No. 8. For moist land on rich soil.	
Rough Stalked Meadow Grass.	
Red Top.	
Creeping Bent.	12c per lb., \$2.16.
Orchard Grass.	100 lbs. for \$10.75.

No. 9. For top seeding marsh pastures.

Water Meadow Grass.	10 lbs. per acre @
Red Top.	15c per lb., \$1.50.
Tall Fescue.	100 lbs. for \$13.25.
Creeping Bent.	

No. 10. For wood pastures, orchards or shady places.

Crested Dogtail.	} 18 lbs. per acre @
Orchard Grass.	
Tall Meadow Oat Grass.	
Kentucky Blue Grass.	
White Clover.	12c per lb., \$2.16.
	100 lbs. for \$10.75.

No. 11. For pig pasture.

Crimson Clover.	} 16 lbs. per acre @
Italian Rye Grass.	
Creeping Bent.	
Alsike Clover.	
	12½ c per lb., \$2.00.
	100 lbs. for \$11.25.

No. 12. For sheep pasture, high land.

Sheep's Fescue.	} 16 lbs. per acre @
Crested Dogtail.	
Kentucky Blue Grass.	
White Clover.	
	12c per lb., \$1.92.
	100 lbs. for \$10.75.

No. 13. For hill sides, to avoid washing off.

Bromus Inermis.	} 15 lbs. per acre @
Yellow Oat Grass.	
Wood Meadow Grass.	
White Clover.	
	18c per lb., \$2.70.
	100 lbs. for \$16.00.

No. 14. For good rich soil as is generally found here in Wisconsin and throughout the Northwest. **Everybody should give this mixture a trial.** Suitable for either meadow or pasture.

Tall Meadow Oat Grass.	} 15 lbs. per acre @
Kentucky Blue Grass.	
Orchard Grass.	
Perennial Rye Grass.	
Italian Rye Grass.	12c per lb., \$1.80.
Creeping Bent.	100 lbs. for \$11.00.
Crimson Clover.	500 lbs. for \$50.00.
Medium Red Clover.	1000 lbs. for \$95.00.

A Large Supply of Feed for this Season.

No. 15. Sow in April ½ bushel Hungarian Grass with 10 lbs. Crimson Clover and 6 lbs. Italian Rye Grass—then you will be able to cut the Hungarian Grass the latter part of June, about 1½ to 2 ton, and in August about 1½ ton of Crimson Clover and Italian Rye Grass; after that good fall pasture.

Hungarian Grass, Crimson Clover, and Italian Rye Grass, 40 lbs. per acre, ready mixed, \$2.20; 100 lbs. for \$5.25.

KOSS' LAWN GRASS SEED.

"Thank God for grass! No other glory vies
With the refreshing glory of the grass:
Not e'en the blue of the o'erbending skies,
Nor fading splendors when the daylight
dies.
Can this sweet smile of living green sur-
pass."

A nice, velvety lawn adds more to the beauty of a place than any other adornment, and even the humblest home may be made attractive with such surroundings, while without a good lawn even the finest flowering plants and elegantly arranged beds seem insignificant. How important it is then to plan for the best lawn obtainable. Do not spend money in sodding a lawn, for it is expensive and seldom satisfactory. When sod is cut from the roadside

or some out of the way pasture, it is poor in quality and full of weeds, and when unevenly laid produces a rough surface which disfigures the lawn. It costs much less to sow the seed and the lawn is far better. Ask for circular, "How to Make a Lawn."

Three to four bushels of Lawn Grass Seed should be sown per acre, or one quart for every 300 square feet. It is necessary to sow the grass seed very thick so as to obtain a close stand, which will prevent the weeds from coming up. A great many lawns have to be sown over again when not enough seed has been used. After sowing the seed it should be harrowed or raked in lightly, which should be followed by a roller so as to bring the seed in direct contact with the soil and insure an immediate sprouting. If a roller is not at hand, firm the ground down by means of a wide board or plank.

Evergreen Lawn Grass Seed—Fresh, pure and clean. The necessary requisite for a beautiful and enduring lawn. This Grass Seed is a carefully prepared combination of the various grasses designed to produce a fine, dwarf, compact and permanent turf. Many lawns dry out and turn brown during the hot, dry summer months, and do not revive until the cooler weather of autumn. By a judicious use of some of the European Grasses with the Standard Lawn Grasses of America, I am enabled to offer a mixture to the public, which, from the habits of the various grasses of which it is composed, to ripen successively, will grow and flourish during the different months of the season, so that a rich, deep green is

Make your Place
LOOK LIKE HOME,
this year by fixing
up a good lawn.

constantly maintained. Seeds of the highest grade, carefully re-cleaned, and of the best quality in every respect, are used in this mixture. Price, pt., 10c; quart, 20c; peck, \$1.35; bushel (20 lbs.) \$5.00.

Central Park—A cheaper mixture than the preceding. Quart, 15c; peck, 75c; bu., 14 lbs., \$2.75.

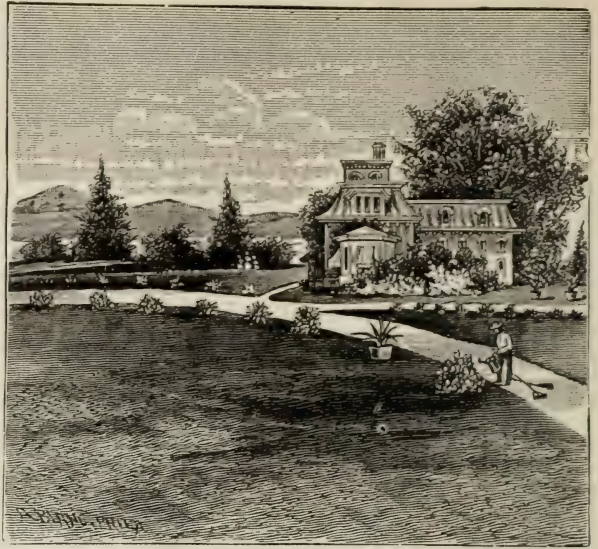
Shady Place Lawn Mixture—This mixture is a combination of fine dwarf growing, evergreen varieties of grass, which grow naturally in the woods or in shaded spots. They are mixed in proper proportions to make a fine lawn under the shade trees. Sow seed thickly, 1 quart to 150 square feet. Pt. 15c; qt. 25c; peck, \$1.50; bu. (20 lbs.), \$5.60.

Golf Links Mixture—This is a mixture of various sorts of fine grasses which, when liberally sown will produce a fine green sward during the growing season. They grow vigorously when cut closely, form a fine mass of interlacing roots, and also differ in their seasons of maturity, so that a succession of fresh growths is secured from earliest spring to latest fall. This mixture includes Sweet Vernal Grass, which gives the perfume of "New Mown Hay." Pt., 15c; qt., 25c; peck, \$1.50; bu. (20 lbs.), \$5.60.

Putting Green Mixture—A mixture of extra fine grasses, that will make a close, firm, green and lasting turf; improves the more it is tramped. Pt., 15c; qt., 25c; peck, \$1.50; bu., (20 lbs.), \$5.60.

Kentucky Blue Grass—Many of our customers prefer a clear blue grass lawn to the mixtures. Our stock of this is the best grade of fancy cleaned new crop, tested seed. Lb., 15c; bushel (14 lbs.), \$1.75.

White Clover—The well known common white clover is very hardy and its dwarf growth makes it desirable for lawn mixtures. Its close, dense turf and creeping habit make it desirable for terraces and sloping ground. Seed is very small and it requires but little in mixtures. Lb., 30c; 5 lbs., \$1.40; 10 lbs., \$2.50.





Comprising all the standard varieties as well as all novelties of real merit. Grown in climates and under conditions best suited to their perfect development.

ASPARAGUS.

One ounce will sow 40 feet of drill; 4 to 5 pounds an acre.

Columbian Mammoth White—A new and distinct variety with pure white shoots of very large and vigorous growth and superior quality, remaining a long time in edible condition. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

Palmetto—Very early and desirable on account of its large size, regular growth, great productiveness and excellent quality. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Conover's Colossal—A well tried standard variety, large size, quick growth, good quality. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c.

ASPARAGUS ROOTS.

Two-year-old roots.

Columbian Mammoth White—\$1.00 per 100 by express.

Palmetto—75c per 100 by express.

Conover's Colossal—60c per 100 by express.



Columbian Mammoth White Asparagus.



BEETS.

One ounce to 50 feet of drill; 5 pounds to the acre in drills.

Culture—The best soil for beets is one that is rather light and thoroughly enriched with manure. For an early supply, sow in spring as soon as the ground becomes fit to work, in drills about 1 foot apart and 2 inches deep. For main crop, sow the first week in May, and for winter use sow in June.

Edmand's Turnip—A new and very superior variety. Nearly as early as the Eclipse. The skin and flesh are deep blood red in color, exceedingly sweet and tender, of good market size, round and smooth, with a single tap root, top very small. Cannot fail

to give the highest satisfaction for winter or summer use. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 35c.

Crosby's Egyptian—An improved strain of the Egyptian. While being as early, it is much thicker, smoother, of better color and quality than its parent. A most desirable beet. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 50c.

Early Blood Turnip—Tender and a good late keeper. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c.

Eclipse—An early variety, globe shaped, smooth, with firm small top, very sweet, flesh fine and dark red color. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 35c.

Long Smooth Blood Red—Tender and sweet, excellent for winter use. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 35c.

Swiss Chard or Silver Beet—A distinct vegetable and much superior to the common beets for greens. If sown at the same time, it will be fit to use before them. Later the plants form broad, flat, beautiful white and wax-like stems to the leaves, which are very delicious cooked as beets, or pickled. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c.

BEANS.

One quart to 100 feet of drill; $1\frac{1}{2}$ bushels to the acre in drills.

Culture—About the first of May select a warm, dry, sheltered spot; dig and manure slightly; make drills 2 inches deep and 18 inches to 2 feet apart; drop the beans 3 inches apart in the drills, and cover not more than 2 inches deep.

DWARF GREEN-PODDED VARIETIES.

Improved Early Red Valentine—About 10 days earlier than the common Early Valentine. In addition to this it is more robust and vigorous, and produces the true, round, curved pods very abundantly. Unexcelled in quality and uniformity of ripening, nearly the whole crop can be taken at one picking, usually within 35 days after planting. Pkt., 5c; pt., 15c; qt., 25c; pk., \$1.25; bu., \$4.75.

Burpee's Stringless Green Pod—The only stringless green pod bush bean in cultivation. Consequently it surpasses all others in crisp, tender flavor. The finely shaped, long, green pods are absolutely stringless, and are ready to market two weeks earlier than the Valentines. It is of immense value, not only to the market gardener but also to the amateur who seeks a rare quality early for the home table. Pkt., 5c; pint, 15c; quart, 30c; peck, \$1.60; bushel, \$6.00.

Refugee, or Thousand to One—Hardy, yields abundantly, and of fine quality. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.25; bushel, \$4.50.

Burpee's Dwarf Lima—A dwarf or bush form of the true large lima, which is of great value. They are of perfect form, grow 18 to 20 inches high, of stout and erect growth, yet branching and vigorous. An immense yielder, each bush bearing from 50 to 200 handsome large pods, well filled with very large beans of luscious flavor. Pkt., 5c; pint, 20c; quart 30c; peck, \$1.65.

Henderson's Dwarf Lima—A true dwarf Lima Bean, requiring no support, grows in compact bush form, from 15 to 18 inches high. Pkt., 5c; pint, 20c; quart, 30c; pk., \$1.65.

DWARF WAX BEANS.

Davis' Kidney Wax—The best for market gardeners or canners. In productiveness it is astonishing, as it will produce at least one-third more bushels of pods to the acre than any other wax bean. The pods are long, straight, oval, of clear waxy white color and handsome, often growing from 7 to 8 inches in length, and when fit for use are quite stringless and of fine flavor. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.75; bu., \$6.75.

Saddleback Wax—The plants are of strong bush growth, 15 inches in height, extra productive. The pods are long, nearly straight, well rounded, and so meaty as to be saddlebacked or creased in the center. The pods are so fleshy that the space between the bean is solid meat without any open spaces, extremely brittle, always stringless, of a rich golden yellow and finest flavor. Pkt., 5c; pt., 15c; qt., 25c; pk., \$1.75; bu., \$6.75.

Improved Rust-Proof Golden Wax—Exceedingly crisp and tender and of a most delicious flavor. Pkt. 5c; pint, 15c; quart, 25c; peck, \$1.75; bushel, \$6.75.

Golden Wax—An early stringless bean, pod of golden wax color and excellent quality. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.70; bushel, \$6.50.

Black Wax—Bright, rich yellow in color, very tender, rich and buttery when cooked. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.70; bushel, \$6.50.

BEANS—Pole or Running. One Quart to 150 Hills.

King of the Garden Lima—Heaviest cropper. Pkt., 5c; pint, 20c; qt. 30c; pk., \$1.75. **Old Homestead, or "Kentucky Wonder"**—The pods, usually 7 inches or more in length, are so fleshy that they are greater in width than breath, being deeply creased or "saddlebacked." They are solidly meaty, stringless when young, and of finest quality. If pods are gathered as they mature, the veins will continue to bear to the end of the season. Pkt., 5c; pint, 20c; quart, 30c; peck, \$1.85.

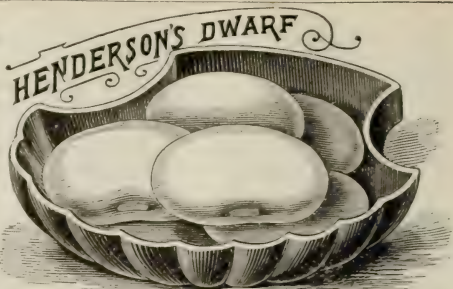
German Black Wax Pole—A superb variety, growing rapidly, very productive, rich golden yellow color, round, full and fleshy. Pkt., 5c; pint, 15c; quart, 30c; peck, \$1.75.

Horticultural Pole—Beans round, oval, speckled, popular for private use. Pkt., 5c; pint, 15c; quart, 25c. peck, \$1.50.

Scarlet Runner—Cultivated for ornamental purposes. Pkt., 5c; pint, 15c; quart, 25c.

BEANS—English.

Broad Windsor—Largest and best. Pkt., 5c; pint, 15c; quart, 25c.



Golden Wax Beans.

GROWN FOR
FEEDING STOCK.



MANGEL-WURZEL

AND SUGAR BEET.

Culture—Both Mangels and Sugar Beets require deep, well enriched soil. Sow in May or June in rows 18 inches to 2 feet apart, and 3 to 8 inches in the rows. As soon as the frost occurs, dig the crop. About 4 lbs. are required for an acre.

Prize Long Red—A popular and very productive variety. $\frac{1}{4}$ lb., 10c; lb., 20c; 10 lbs., \$1.75.

Mammoth Long Red—An exceptionally large variety and heavy cropper. $\frac{1}{4}$ lb., 10c; lb., 25c; 10 lbs., \$2.00.

Golden Tankard—Color bright yellow, very productive. $\frac{1}{4}$ lb., 10c; lb., 25c; 10 lbs., \$2.00.

Champion Yellow Globe—A favorite round variety. $\frac{1}{4}$ lb., 10c; lb., 25c; 10 lbs., \$2.00.

White Sugar Beet—Grown extensively for feeding stock, also for the extraction of sugar. $\frac{1}{4}$ lb., 10c; lb., 25c; 10 lbs., \$2.00.

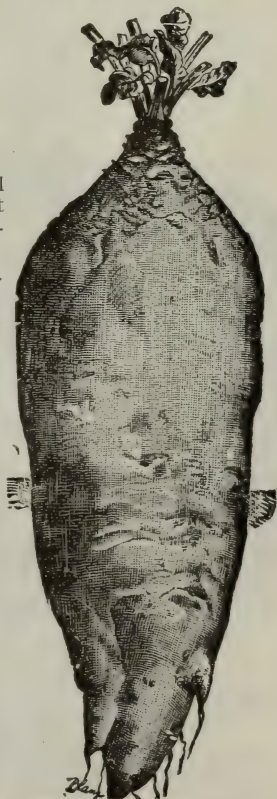
Klein Wanzleben—This kind is grown on a larger scale than any other sugar beet. The root is conical, straight and even, quite large at the head and rapidly tapering. It is easy to dig, and is a heavy yielder. $\frac{1}{4}$ lb., 10c; lb., 25c; 10 lbs., \$2.00.

BRUSSELS SPROUTS.

One ounce will sow 300 feet of drill.

Brussels Sprouts are being more extensively grown and used. Home gardeners are finding out that this delicious vegetable can be as easily grown as cabbage. Sow in May and manage as Winter Cabbage. In the fall break the leaves down so that the little cabbage will have more room to grow.

Dwarf Improved—A fine strain. Pkt., 5c; oz. 15c; $\frac{1}{4}$ lb. 35c.



Mammoth Long Red
Mangel-Wurzel.

CABBAGE.

One ounce of seed will produce about 2,000 plants.

Set 8,000 to 10,000 plants to the acre of the early sorts and 6,000 of the large, late kinds.

We pride ourselves on having the best, purest and highest grade of cabbage seed that is offered, or at least it is surpassed by none. Compared with the cost of seed, there is more money in growing cabbage than any other crop and there is nothing that growers should be more particular about.

The cabbage requires a deep, rich soil, and thorough working to insure good, solid, full-sized heads. Sow early sorts in hot-beds in February or March, or in open ground as soon as it can be worked. Later or winter crops in May or June, in shallow drills 6 inches apart. When the plants are 4 inches high transplant into richly manured ground, the early kinds 2 feet apart. The fall and winter varieties three feet apart.

Early Spring or Flat Parisian—An extra early flat-headed Cabbage, coming in with Jersey Wakefield. The great value of this extra early Cabbage lies in the fact that it is a true flat-headed sort. Planted on the same day as Early Jersey Wakefield, it was ready to cut with it and produced heads twice the weight of Wakefield. It is very solid and regular in shape, has few outside leaves, and possesses a very fine texture and flavor. On account of its having very small outside leaves, it can be planted as closely as any of the pointed-headed cabbages. No market-grower should be without Early Spring for his first crop. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c; 1 lb., \$2.25.

Early Jersey Wakefield—Extensively grown, requiring no recommendation. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$1.85.

Henderson's Early Summer—A most excellent variety. Twenty days later than the Wakefield, but it grows to fully double the size of the latter. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c; lb., \$1.75.

Fottler's Improved Brunswick—An early drum-head of large size, ready for market soon after first early sorts. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.40.



Henderson's Early Summer Cabbage. The fall and winter varieties three feet apart.



Surehead Cabbage.

Succession—(True Stock.) A medium early variety and such a grand keeper, that it is valuable for both early and late use. The largest growers say it is one of the best marketing cabbages ever introduced and I want to add that it is also fine for the home garden. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$1.85.

Large Late Drumhead—Large, round and solid. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.40.

Surehead—(Genuine Strain.) All head and always sure to head; this very popular variety is rightly named Surehead because it never fails to form a good, solid head, even on poor soil, but the richer the soil the larger and finer the head. It is the finest late cabbage in this country, and the best market variety, and heads the list for winter use. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c; lb., \$1.75.

Premium Flat Dutch—The standard winter variety, low growth, heads large, round, solid and flat on top, an excellent keeper. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.65.

Koss' Short Stem Drumhead—(Late.) Head very large, hard, solid, round, flattened on the top, uniform in size and shape, often attain 20 to 30 lbs. in weight and are always of the finest quality and a sure header. It has a very short stem and grows very compact, the leaves all turning in to form the head, with very few loose leaves, thus allowing it to be set close together. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.00.

CABBAGE—Continued.

Luxemburg—Also known as Hard Head. Makes a very hard head of large size and extraordinary weight, and is remarkable for its keeping qualities. An excellent sort for late spring use. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.25.

The Hollander—This is a favorite winter sort with market gardeners. The heaviest cabbage of all. It is as hard as a rock and a small sized head will weigh more than a large sized head of other sorts. Try it. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., \$1.00; lb., \$3.50.

Early Dark Red Erfurt—Early and valuable for pickling. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c; lb., \$1.75.

Mammoth Red Rock—A market gardener's strain of unusual size, color and weight, the result of careful and intelligent selection. It has proven very valuable. Its handsome appearance, large size, solidity and good quality will make it very desirable to all who like red cabbage. Solid and as good a keeper as any red cabbage. Color very dark red. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.00.

Early Dwarf Ulm Savoy—One of the earliest and sweetest of the Savoys. Heads round, solid; leaves small, thick, fleshy, of fine, deep green color, and of most excellent quality. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c; lb., \$1.75.

Drumhead Savoy—Heads large, round, compact, excellent for winter use. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.60.

SWEET CORN.

One quart will plant 200 hills; one peck will plant an acre in hills.

Plant as soon as the ground becomes warm in the spring, in hills about 3 feet apart, five or six grains to the hill, and when up thin them out, allowing three or four of the strongest plants to remain. Give thorough cultivation.

Cory—The earliest, productive, and in great demand. I have both the white and reb cob variety. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.25; bushel, \$4.50.

Early Minnesota—Early, very productive, and of excellent quality. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.10; bushel, \$4.25.

Country Gentleman—The most delicious of all sweet corns, the ears are somewhat smaller than the coarser varieties, but for private family use, where quality is preferred to size, it has no equal. Time of ripening is a little later than Stowell's Evergreen. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.25; bushel, \$4.50.

Black Mexican—Sweet and desirable for family use. When dry the kernels are black. The corn, when in condition for the table, cooks remarkably white and is not excelled in tenderness by any other sort. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.25; bushel, \$4.50.

Cory Sweet Corn.

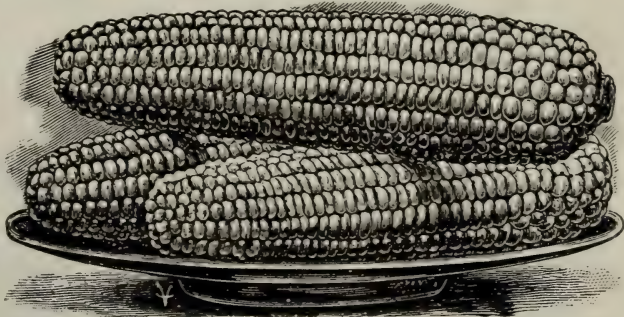
Stowell's Evergreen—An excellent late variety, remaining a long time in a condition suitable for boiling. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.10; bushel, \$4.00.

CORN—POP.

Silver Lace—This is an exceedingly handsome variety of pop corn. It is a fine popper and produces very heavily. Pkt., 5c; pint, 15c; qt., 25c.



The Hollander Cabbage.



Stowell's Evergreen Sweet Corn.

CAULIFLOWER.



Early Snowball Cauliflower.

Early Snowball—Throughout the country this is considered not only the earliest of all cauliflowers, but it is more certain to make a head than any other sort. Its dwarf habit and short outer leaves allow it to be planted as close as 18 to 20 inches apart each way, thus making it especially valuable to market gardeners. Our stock is extra choice and cannot be excelled. Pkt., 20c; $\frac{1}{4}$ oz., 75c; oz., \$2.50; $\frac{1}{4}$ lb., \$9.00.

Extra Early Dwarf Erfurt—Valuable for forcing. A very popular variety in Europe and with eastern gardeners. First quality. Pkt., 15c; $\frac{1}{4}$ oz., 60c; oz., \$2.25; $\frac{1}{4}$ lb., \$8.00.

Early Paris—Well known small variety which usually proves quite satisfactory. Pkt., 5c; oz., 50c; $\frac{1}{4}$ lb., \$1.75.

Lenormand's Short Stemmed—A late variety of cauliflower. It is of large size and produces well formed heads of excellent quality. Pkt., 5c; oz., 50c; $\frac{1}{4}$ lb., \$1.75.

CORN SALAD OR FETTICUS.

Large Seeded—Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 50c.

CRESS.

Extra Curled or Peppergrass—The seed should be sown in drills about 15 inches apart, on rich ground and the plants well cultivated. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c.

True Water Cress—Thrives only when its roots and stems are submerged in water. The seed should be sown along the border of small streams. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 90c

CUCUMBERS.

One ounce will plant 50 hills; two pounds will plant one acre.

Improved Early White Spine—Fruit 6 to 8 inches long, remaining green longer than any other variety. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.40.

Early Frame—Early sort for table and pickling, of medium size, straight and handsome. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.

Boston Pickling—Very productive and of superior quality. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.

Improved Long Green—An old standard sort, one foot long. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.

Koss' Cream City Pickle—Early and very productive, flesh crisp and tender, fruit of dark green color, which they retain as pickles. This variety has been grown from my own special stock. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.40.

Nichol's Medium Green—Exceedingly productive, of medium size and always straight and smooth. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.

Japanese Climbing—Vines are extra strong, and foliage much more vigorous than other sorts, and from its climbing habit can be grown on trellises, etc., saving valuable space. It is very profitable, 40 to 50 cucumbers having been counted on single plants. Flesh thick and of fine flavor. Good for pickling and slicing. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c; lb., \$1.65.

Snake—A remarkable and very interesting curiosity. Cucumbers grow curled up like a snake with the head protruding, and some measure 6 feet in length. Grown chiefly as a curiosity and for exhibition. In packets only, each 10c.



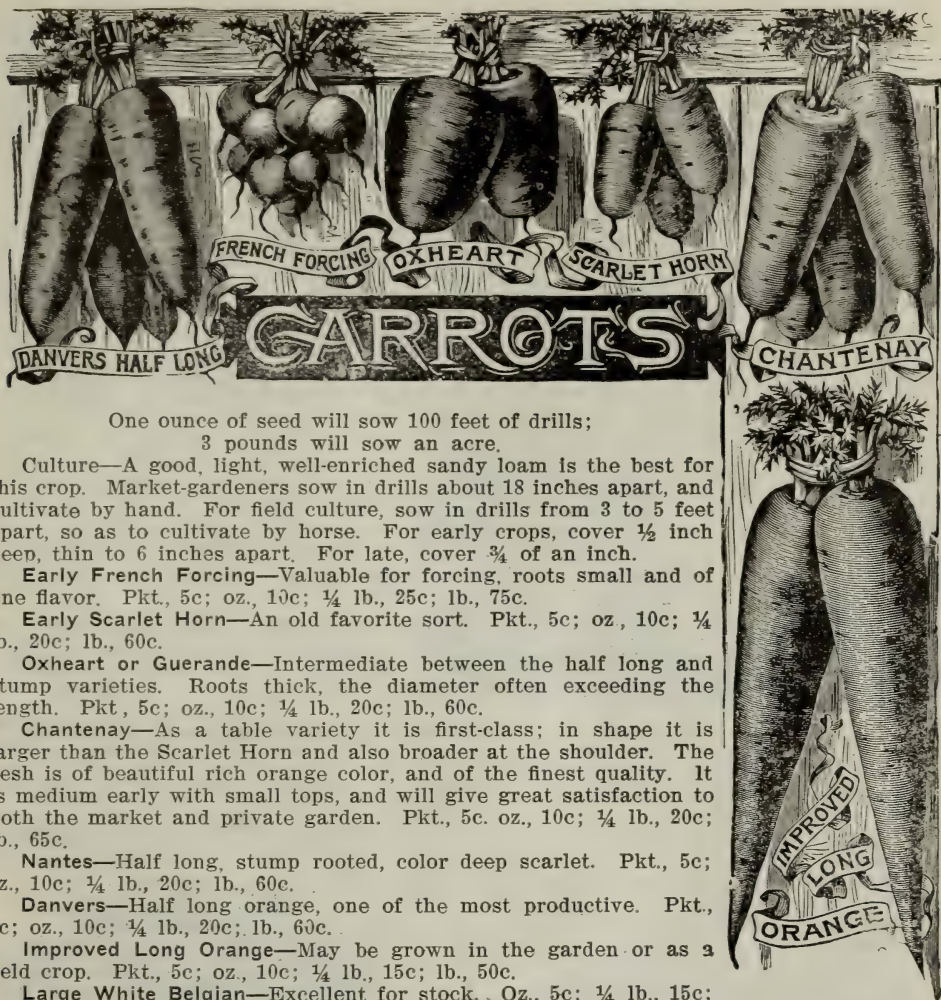
Nichol's Medium Green Cucumber.



Improved Early White Spine.



Snake Cucumber.



One ounce of seed will sow 100 feet of drills;
3 pounds will sow an acre.

Culture—A good, light, well-enriched sandy loam is the best for this crop. Market-gardeners sow in drills about 18 inches apart, and cultivate by hand. For field culture, sow in drills from 3 to 5 feet apart, so as to cultivate by horse. For early crops, cover $\frac{1}{2}$ inch deep, thin to 6 inches apart. For late, cover $\frac{3}{4}$ of an inch.

Early French Forcing—Valuable for forcing, roots small and of fine flavor. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

Early Scarlet Horn—An old favorite sort. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

Oxheart or Guerande—Intermediate between the half long and stump varieties. Roots thick, the diameter often exceeding the length. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

Chantenay—As a table variety it is first-class; in shape it is larger than the Scarlet Horn and also broader at the shoulder. The flesh is of beautiful rich orange color, and of the finest quality. It is medium early with small tops, and will give great satisfaction to both the market and private garden. Pkt., 5c. oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 65c.

Nantes—Half long, stump rooted, color deep scarlet. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

Danvers—Half long orange, one of the most productive. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

Improved Long Orange—May be grown in the garden or as a field crop. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Large White Belgian—Excellent for stock. Oz., 5c; $\frac{1}{4}$ lb., 15c; lb., 45c.

EGG PLANT.

One ounce produces about 1,000 plants.

Culture—Sow the seed in the hot-bed or greenhouse about March 1, transplant to 4 inches apart, and when the plants grow thick, transplant to 8 inches apart. Set in the field about May 20.

New York Improved—Purple in color, large size and good quality. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., \$1.00.

Black Pekin—Round in form, solid and quite early. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 75c.

ENDIVE.

One ounce of seed to 150 feet of row.

Culture—For early use, sow in May, scattering the seed thinly in drills 10 inches apart, covering it lightly, and for succession every two or three weeks until midsummer.

Broad-leaved Batavian—More productive than others. Forms large heads of broad, thick leaves. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.

Green Curled Winter—Very hardy, leaves dark green, curly and tender. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c. lb., \$1.25.

GARLIC.

Sets per $\frac{1}{2}$ lb., 20c; lb., 35c. If by mail, add 8c per lb. for postage.

CELERY.

Golden Self-Blanching—Most important acquisition, and cannot be too highly recommended. The heart is large, solid and beautiful, rich, golden yellow color. It is an excellent keeper. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.25.

Kalamazoo—This new distinct variety originated with a prominent celery grower of Kalamazoo, Mich., and is pronounced by those who

know it best, "the best perfect type of Dwarf White Celery known." Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.55.

Hartwell's Perfection—One of the very best sorts for market, owing to its great keeping qualities. Very solid and never hollow. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.40.

Evans' Triumph—This new celery is one of superb quality and one of the best keepers, remaining in condition for use much longer than most sorts. The very large solid stalks are of the finest quality and texture, crisp, brittle, tender and really nutty in flavor. It stands at the head of all late keeping celeries. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.75.

White Plume—Requires very little earthing up to blanch it; crisp, solid, and of a nutty flavor. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.80.

Golden Heart—Very fine when blanched, the hearts are of a rich golden yellow. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.35.

Crawford's Half Dwarf—Color a yellowish white, very attractive. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.40.

Boston Market—A bushy, white, solid, fine market variety. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

Incomparable Dwarf Crimson—Dwarf habit, exceedingly solid, fine, dark crimson color. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.00.

Soup Celery—(Old Seed.) For flavoring. Oz., 5c; lb., 30c.

TURNIP-ROOTED CELERY—Celeriac.

Large Erfurt—Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

Large Smooth Prague—Round, smooth roots, with very few side roots. This is the best and largest variety. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.35.

Apple Shaped—Roots large, smooth and almost round in shape. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.



Large Erfurt Celeriac.

KOHLRABI.

TURNIP-ROOTED CABBAGE.

One ounce will sow a drill of about 200 feet.

Early White Vienna—The best market variety, tender. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.75.

Early Purple Vienna—Different from the above only in color. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.75.

Large Green—Used for feeding stock, bulbs large. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

LETTUCE.



Prize Head Lettuce.

Tilton's White Star—A great favorite with market-gardeners. Superior for forcing as well as outdoor planting, splendid shipper, forms enormously large heads, leaves bright green, thick and crisp. This variety retains its fresh appearance longer than many other varieties. Pkt., 5c. oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

Prize Head—One of the very best varieties; grows to a large size; even the outer leaves are crisp; is slow to go to seed and of fine flavor. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

Deacon Cabbage—While this lettuce does not make as large a head as some others, the heads formed are very solid and of excellent flavor, and remain in condition for use as long as any variety in cultivation. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

All the Year Round—Hardy, compact and crisp, with small, close heads. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

Yellow Seeded Butter—Very crisp and tender. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c; **Hanson**—Heads green, with white hearts. Large and solid, crisp and tender. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

Black Seeded Simpson—A curled variety of unusual merit. Excellent for forcing. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

Boston Curled—An excellent early variety for garnishing. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

Brown Dutch Winter—A very hardy sort, medium size, fine flavor. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

KALE OR BORECOLE.

Sow in prepared beds, middle of April to beginning of May and transplant beginning of June, same as cabbage. All the varieties are very hardy, and are best when touched with frost.

One ounce to 1,500 plants.

Tall Green Curled Scotch—Finely curled, one of the best sorts. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

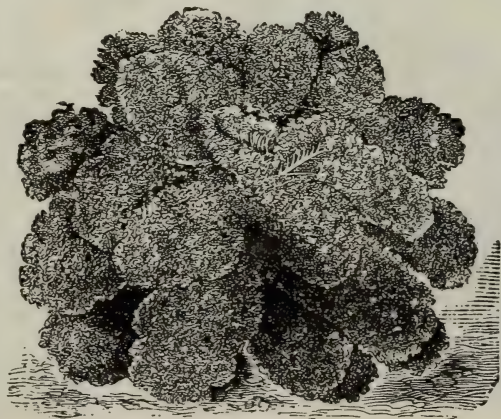
Dwarf German—Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

LEEKs.

One ounce will sow a drill of about 100 feet.

Large London Flag—Hardy, strong growing plant, with broad leaves. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 90c.

Musselburg—The favorite market variety. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.



Kale, or Borecole.



Musselburg Leek.

MUSKMELONS.

One ounce for 60 hills; 2 to 3 pounds in hills for an acre.

Melons thrive best in a moderately enriched light soil, the hills should be from 3 to 6 feet apart each way, according to the richness of the soil. If soil is poor or sandy, plant at 4 feet. Previous to planting, incorporate well with the soil in each hill a couple of shovelfuls of thoroughly rotted manure; plant 8 to 10 seeds in each hill early in May, for latitude of Milwaukee (for south earlier, for further north later), and when well up thin out to three or four of the most promising plants to the hill.

Tip Top—A melon I recommend to every lover of this luscious fruit and to every gardener who grows for the market. It is yellow fleshed and of the very best quality. Every melon produced, big or little, early or late in the season, is a good one. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.

Paul Rose—Is a decidedly new and meritorious variety that is bound to please all classes of melon producers. It is a large "Netted Gem," with deep orange flesh, secured by crossing with the Osage. It is a great producer of extra fine quality melons; as early as the Gems and equally as good a shipper. A good variety for the large grower and equally as good for the small grower for home use. True seed is very scarce this season. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

Emerald Gem—This is undoubtedly the finest in flavor of all varieties of musk melon. It is also the earliest to ripen, and while too soft to stand shipping any great distance to market, it is unequaled for home use or nearby markets. Vines of strong vigorous growth and very prolific. If fruits are gathered as soon as they ripen, the vines will continue in bearing throughout the season. The melons are rather small and flattened at both ends. The skin is a rich, deep emerald green, smooth and free from netting. The fruits are heavily ribbed, with narrow bands of lighter green between the ribs. Flesh very thick, with thin rind and small seed cavity, crystalline in appearance, and of a rich salmon color. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.60.

The Princess—The most delicious melon. The flesh is of a rich salmon color, very thick and sweet. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

Osage—Medium size, very productive and unsurpassed in flavor. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.



Paul Rose Musk Melon.

Hackensack—Deeply netted, very large and productive. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

Netted Gem or Rocky Ford—This has become one of the most popular of small or basket melons. The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet and high flavored. I offer an exceptionally fine stock of this sort, the fruit being wonderfully uniform in shape and quality. Pkt., 5c. oz., 10c; $\frac{1}{4}$ lb., 30c; lb., 90c.

Grand Rapids—The earliest large muskmelon. A new, extra early, yellow fleshed sort of handsome shape. It is a most profitable variety to the gardener on account of its size, attractive appearance, and its extreme earliness. Its flavor is not as good as that of the Osage, or other standard melons, but it is ready for market before any other large variety can be picked, and that fact insures ready sales. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.



MUSTARD.

White London—Best for salads. Oz., 5c; $\frac{1}{4}$ lb., 10c; lb., 30c.

Brown—More Pungent than the white. Oz. 5c; $\frac{1}{4}$ lb. 10c; lb. 30c.

MUSHROOM SPAWN.

English—Per lb., 15c; 10 lbs., \$1.00; by mail, per lb., 25c.

SLUG SHOT
kills the
MELON BUG.
Lb. 6c, 5 lbs. 25c.

WATERMELONS.

One ounce for 50 hills; 4 to 5 pounds will plant an acre.

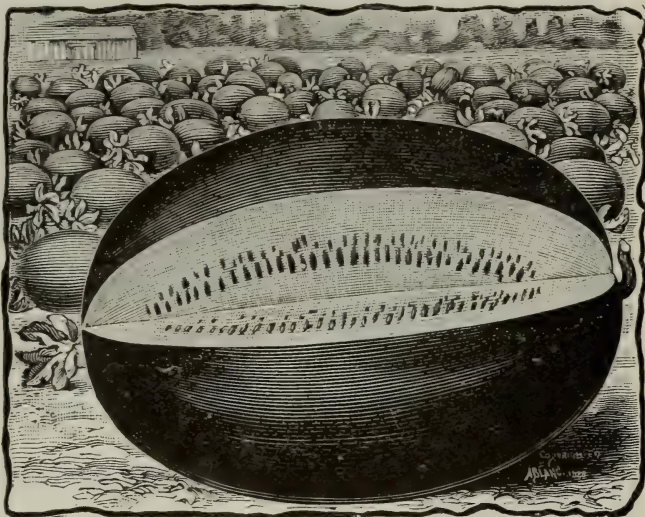
Culture—A rich, deep, sandy loam, well worked and highly manured with old rotten compost, is of the first importance. Plant, when all danger of frost is over, in hills, 5 or 6 feet apart each way. Scatter a dozen seeds to a hill, and after they are out of danger from bugs, thin to 3 or 4 plants. When they have 4 or 5 rough leaves, pinch off the ends of the main shoots.

Sweet Heart — Early, large, handsome, a good shipper and long keeper. Melons oval, heavy and uniformly mottled, very light green. Rind thin but firm, solid and very tender, melting and sweet. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

Henderson's Green and Gold—Flesh a golden orange color, very juicy and sweet. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

Kolb's Gem—Large, delicious and an excellent keeper. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 50c.

Citron—(For preserves). Small, round fruit, makes a beautiful clear, nearly transparent preserve of fine flavor. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 55c.



Henderson's Green and Gold Water Melon.

Dixie—This melon has excellent merits and I can recommend it to my customers as the best shipping melon grown, being even larger, earlier and far more productive than the Kolb's Gem, which has heretofore been considered the best melon for shipping. Another very important point is its productiveness, having six to eight large melons on a vine. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 55c.

Cuban Queen—Flesh bright red, skin striped. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

Mountain Sweet—Fruit large, dark green, rind thin, flesh hard, solid and very sweet. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 55c.

PARSNIPS.

One ounce for 200 feet of drill; 5 to 6 pounds for an acre.

Culture—Sow early in spring, in drills 15 inches apart and half an inch deep, in rich, deep soil; thin out to 6 inches apart in the rows.



Guernsey—(Improved half long). The roots do not grow so long as those of the Hollow Crown, but are of greater diameter and more easily gathered. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c.

Long Smooth or Hollow Crown—Smooth and large, very tender and sugary; best for general use. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 35c.

OKRA OR GUMBO.

Dwarf White—Early and very productive. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 45c.

White Velvet—The pods of this variety are round and perfectly smooth and not ridged like other Okras. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 50c.

PEPPER.

Large Bell or Bull Nose—Early, mild and pleasant to the taste. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

Ruby King—Large and handsome, remarkably mild. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

Long Cayenne—Long, red, hot and pungent; dwarf growth. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

RHUBARB.

Victoria—Large and tender. Pkt. 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

Roots—10c each, \$1.00 per dozen, by express.



ONIONS.

A strong, deep, rich and loamy soil is most suitable for this crop. The ground should be heavily dressed with well-rotted manure, and plowed a moderate depth, taking a narrow furrow in order to more thoroughly mix the manure with the soil, if possible the plowing should be done in the fall. As early in the spring as the ground is in working order, harrow it thoroughly and make as fine a level as possible; sow thinly in drills one-fourth inch deep and twelve inches apart. Keep the surface of the ground open and free from weeds, but do not ridge up to the growing bulbs. One ounce will sow one hundred feet of drill; 4 to 5 pounds per acre.

Australian Brown—A new onion of real merit. The bulb develops very early from seed, and will keep longer than any other onion. It is of medium size, extremely solid, tender, crisp and mild-flavored. The skin is a beautiful amber-brown, and is very attractive. My seed is true to name and of thoroughly acclimated stock. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

Prize Taker or Spanish King—A globe-shaped variety of recent introduction, remarkable for its enormous size, many specimens reaching the weight of three and one-half pounds each. The skin is of a bright straw color, flesh white, very thick, and of mild flavor. Earliness, uniform shape, productiveness and its long keeping qualities have made the Prize Taker a valuable acquisition. It is today one of the largest, handsomest and most profitable variety grown. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

Extra Early Flat Red—A variety of unusual early maturity, medium size and of a deep red color. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

Extra Selected Yellow Globe Danvers—The finest shaped, best colored and largest cropper of any of the yellow onions, and not to be compared with the ordinary stock of Yellow Globe Danvers. Its points of superiority over the ordinary Yellow Danvers are earliness of ripening, smallness of neck, perfect globe shape and uniformity of shape and color. It is an immense cropper and will yield more marketable onions to the acre than any strain ever tried. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00; 5 lbs. or more, 90c per lb.

Yellow Globe Danvers—Ordinary stock. The most popular onion all over the country. Excellent quality, mild flavored, very productive, ripens early, good keeper. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., 90c; 5 lbs. or more, 80c per lb.

Yellow Danvers—Differing from the Globe strain only in shape, being more flat. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., 90c.

Large Red Wethersfield—The leading red onion, deep red in color, and an excellent keeper. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

Mammoth Red Pompeii—Grows to an enormous size, single onions often weighing from 4 to 5 lbs.; skin pale reddish-brown, flesh white, fine grained, very mild and tender. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.40.



ONIONS--Continued.

Mammoth Silver King—Of attractive shape, with silvery white skin and flesh of a most agreeable mild flavor. It matures quite early and reaches a much larger size than any other of the flat white varieties; frequently measuring twenty inches in circumference, and weighing from three to five pounds when well grown. They must be sown thinly to produce large onions. We do not hesitate to recommend it as one sure to please the grower. True American grown seed. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$1.90.

White Portugal or Silver Skin—Extensively grown for pickling. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c; lb., \$1.65.

White Queen—A rapid grower, white skin, early and excellent for pickling. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.65.

Southport White Globe—The leading white onion, of mild flavor and a good keeper. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c; lb., \$1.60.



White Queen Onion.

Southport Red Globe—Differs from the preceding only in color. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.15.

Southport Yellow Globe—A handsome variety of large size. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

Extra Early White Pearl—A very fine new Italian variety that grows quickly to a good marketable size. The bulbs are round, flattened with a delicate, pure white skin. Flesh very mild and pleasant in flavor. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$1.90.

ONION SETS.

Indispensable for early onions for bunching, as in a very few weeks they are ready for the table. While it is much cheaper to grow onions from seed, still it is considerable work to keep them weeded, and many of our customers who have only a small garden, prefer to grow them from the sets and gardeners plant sets for the early market.

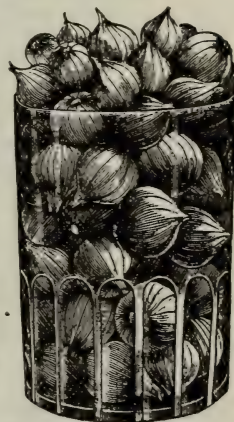
Yellow Bottom Sets—Pint, 10c; quart, 20c.

White Bottom Sets—Pint, 15c; quart, 25c.

Red Top Sets—Pint, 10c; quart, 15c.

If by mail add 6c per pint and 10c per quart to above prices.

Write for special prices on larger quantities.



Onion Sets.

PARSLEY.

One ounce will sow 150 feet of drill.

Culture—Sow early in spring in drills 14 inches apart, and thin to 6 or 8 inches. Cover half an inch deep.

Extra Curled Emerald Dwarf—Dwarf, with bright green leaves finely cut and curled; very ornamental. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 65c.

Champion Moss Curled—The leaves are very finely curled and moss like. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

Plain Leaved—Hardier than the curled varieties. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 45c.



Hamburg or Turnip Rooted—The roots are used for flavoring. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 50c.

PEAS.



One quart will plant about 100 feet of drill; 2 to 3 bushels per acre.

Peas mature quickest in light, dry soil, not too rich. May be sown as early as the ground can be worked, and for a succession every two weeks up to July, or what is better, select several kinds which will form a succession in maturing. Sow in drills two to four feet apart, according to varieties, and 3 to 4 inches deep for general crop, although the first earlies will come to maturity sooner if only covered 1½ inches. Wrinkled sorts are marked *. They should be sown thicker in the rows than the smooth varieties, as they are more liable to rot if the ground is wet. Crop is quite short this year.

EARLY VARIETIES.

Alaska—One of the very best extra early market varieties. Pods of perfect shape and good quality. Pkt., 5c; pint, 10c; quart, 20c; peck, \$1.10; bushel, \$4.00.

Koss' Extra Early Market—Unequaled for excellence, yield, size of pod and regularity of growth. Emphatically the pea for market gardeners and truckers. It is a wonderful bearer, produces pods of good size, which ripen so evenly as not to require more than two pickings to clear off the crop. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.35; bushel, \$5.00.

***Gradus (Prosperity)**—A very famous new pea. Extra early, and in fact the earliest large-podded pea in cultivation. Grows 3 feet high, produces uniformly large pods, from 4 to 4½ inches long, well filled with large handsome peas. Quality superior, with most delicious flavor. Pkt., 10c; ½ pint, 15c; pint, 25c; quart, 40c; peck, \$2.75; bu., \$10.00.

***Nott's Excelsior**—Is fully as sweet and delicious as the American Wonder and the pods are larger. It is far more productive than the Little Gem and is within a few days as early as the first early smooth peas, having matured in forty-three days. Pkt., 5c; pint, 15c; quart, 30c; peck, \$1.80; bushel, \$7.00.

***American Wonder**—Early, very productive and of the very best quality. Pkt., 5c; pint, 15c; quart, 30c; peck, \$1.75; bushel, \$6.50.

***McLean's Little Gem**—A dwarf prolific, green wrinkled variety, early. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.50; bushel, \$5.75.

Tom Thumb—Very dwarf and early, of excellent quality, yields abundantly. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.50; bushel, \$5.75.

***Horsford's Market Garden**—A most prolific bearer, pods medium size, numerous and well-filled with peas of delicious flavor. Somewhat later than the Little Gem. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.10; bushel, \$4.00.

Dwarf Sugar, Edible Pods—Early, used like snap beans or shelled. Pkt., 5c; pint, 15c; quart, 30c; peck, \$1.75.

GENERAL CROP VARIETIES.

***Telephone**—An extraordinary cropper, bearing immense semi-double pods, full of large peas of exquisite flavor. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.65; bushel, \$6.00.

***Juno**—The best wrinkled main crop pea in the market today. Vines robust in growth, pods stout, straight and usually borne in pairs. The pods are thick and well filled with delicious, large, sweet, dark green peas of the finest quality. Pkt., 5c; pint, 15c; quart, 25c; peck, \$1.35; bushel, \$5.00.

***Improved Stratagem**—The best variety for general crop. Pods of immense size, many measuring five and one-half inches in length and containing as many as 10 large, fine-flavored peas. Pkt., 5c; pint, 15c; quart, 30c; peck, \$2.00; bushel, \$7.75.

***Champion of England**—An old favorite. Pkt., 5c; pint, 10c; quart, 20c; peck, \$1.00; bushel, \$3.75.

Black Eyed Marrowfat—Excellent for either garden or field culture. Pkt., 5c; quart, 15c; peck, 75c; bushel, \$2.50.



American Wonder Peas.

PUMPKINS.

One ounce for 20 hills; 2 lbs. for an acre.

Culture—Sow in good soil in May, in hills 8 to 10 feet apart each way; or in fields of corn about every fourth hill. Avoid planting near other vines.

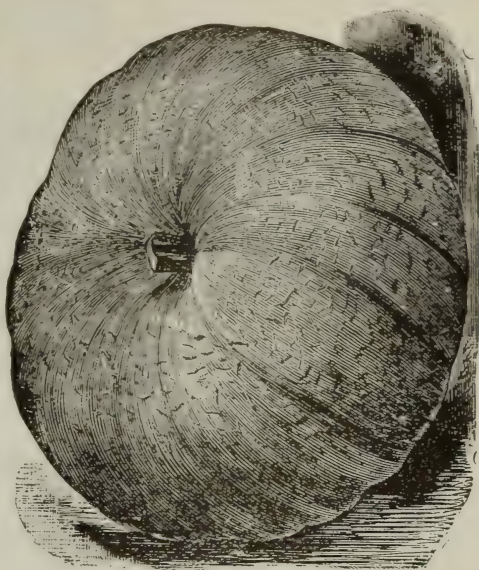
Calhoun—Gives the highest satisfaction. Outside color creamy brown, inside flesh deep salmon yellow; wonderfully thick and fine-grained; seed cavity very small. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

Large Cheese—Flat shaped, flesh yellow, fine grained and sweet. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c.

Mammoth Tours—Of enormous size, flesh salmon colored, very productive and of excellent quality. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

Jonathan—This is one of the finest varieties ever introduced; a good keeper, large size, very sweet and finest of all for pies. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 65c.

Connecticut Field—Standard sort for field culture. Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 25c. 3 lbs., 60c.



Mammoth Tours Pumpkin.

SALSIFY (Vegetable Oyster).

One ounce for 50 feet of drill.

Culture—Sow early in drills 18 inches apart and two inches deep; thin to 4 or 5 inches apart. The roots are best after frost has touched them.

Large White—Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

Mammoth Sandwich Island—Twice as large as the preceding, pure white, very tender and delicious. Invaluable for market gardeners. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

Scorzoneria, or Black Oyster Plant—Treatment same as salsify, which it closely resembles, except that the skin is black. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.40.

**SPINACH.**

One ounce will sow about 80 feet of drill; 10 pounds to the acre.

This is the finest "greens" of any plant in cultivation. For summer, sow early in spring in deep, rich soil, in drills one foot apart; cover one inch. Sow at intervals of two weeks throughout the season. For very early spring use, sow the winter varieties first of September, and protect by covering with straw.

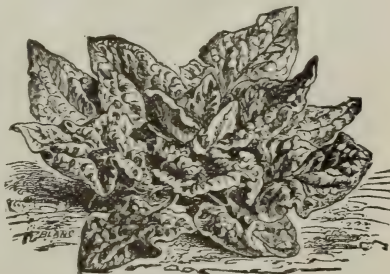
Long Standing—Standard with gardeners. Leaves thick, fleshy and crumpled; slow in running to seed; leaves round, large and of a dark green color. Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 25c; 5 lbs., \$1.00.

Round Leaf—Excellent market sort, equally good for spring or fall sowing, leaves large, thick and fleshy. Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 25c; 5 lbs., \$1.00.

New Victoria—Quick to mature, forms very large, exceedingly thick leaves, savoyed in the center. It remains in condition for use much longer than most kinds and cannot fail to please. Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 25c; 5 lbs., \$1.00.

Bloodsdales Savoy Leaved—The leaves are wrinkled like Savoy Cabbage. Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 25c; 5 lbs., \$1.00.

Prickly Seeded—Triangular, arrow shaped leaves, one of the hardiest and generally used for fall planting. Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 25c; 5 lbs., \$1.00.



Victoria Spinach.

TOBACCO.

Connecticut Seed Leaf—Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

Imported Havana—Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 65c.

RADISH.



Early Scarlet Globe Radish.

One ounce will sow 100 feet of drill; 8 to 10 lbs. will sow one acre in drills.

Radish seed should be sown in light, rich soil as early as the ground can be worked, and for a succession, at intervals of two weeks until midsummer. Radishes must be grown quickly and have plenty of room or they will invariably be tough and pithy. Sow in drills one foot apart and thin to two or three inches apart as soon as the rough leaves appear.

Early Scarlet Globe—A most excellent early radish for garden culture, and for hotbed forcing there is no variety so desirable as the Early Scarlet Globe. It is the earliest; its color is the handsomest; in flavor it is the mildest, most crisp, juicy and tender. It is the market gardener's favorite as a forcing radish. It forms small top, and will stand a great amount of heat without becoming pithy. Per pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 65c.

Ne Plus Ultra—Remarkably fine in quality, of very quick growth, and ready to pull within twenty days after sowing. Perfectly globular little roots, of very bright color and excellent shape; certain to insure ready sale on the market. Per pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

Extra-Early Scarlet Turnip, Forcing—Of medium size, bright scarlet; quality superior. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

White Tipped Scarlet Turnip (Rosy Gem)—This is an early variety of medium size of excellent flavor, and of very handsome appearance. Color deep scarlet, tipped with white. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 45c.

Early Scarlet Turnip—An excellent early round, red radish. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 45c.

French Breakfast—An olive shaped white tipped variety. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 45c.

White Summer Turnip—A well known standard sort. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 45c.

Gray Summer Turnip—Excellent for summer use, mild. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 45c.

Yellow Summer Turnip—Withstands the heat and drought of summer well. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 45c.

Long White Vienna, or Lady Finger—Skin and flesh pure white, mild, sweet, crisp, brittle, of quick growth. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 50c.

Chartier—Color at the top, bright crimson, shading to pink at the middle, and running to pure white at the tip. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c.

White Strasburg—This grows to the largest size and is usable when quite small, thus covering a long season. The mature roots are 4 to 5 inches long and about 2 inches thick, very white; the flesh is exceedingly crisp and tender. One of the best of the large summer sorts. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.



White Strasburg Radish.

Long Scarlet Short Top—A favorite sort. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 45c.

Rose China Winter—Very popular with market gardeners. Form conical, very smooth and of a bright rose color. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

Long White Spanish—Root long, top-shaped, retaining the same diameter for two-thirds of its length, sharply conical at the base, and when full grown measuring seven or eight inches in length, and about three inches in diameter. Flesh white, solid and pungent. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

Round Black Spanish—Roots round, sometimes top-shaped, three to four inches in diameter; skin black, flesh white, very compact and highly flavored. An excellent sort for winter, as the roots keep a long time. Pkt., 5c; oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 20c; lb., 55c.

Long Black Spanish—One of the latest as well as the hardiest of the radishes; an excellent sort for winter use. Roots oblong, black, of very large size and firm texture. Pkt., 5c; oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 20c; lb., 55c.

Mixed Radishes—A mixture of about twelve choice varieties of early, medium and late radishes. This will give you radishes all summer, and you will be surprised at the results. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

SQUASH.

One ounce early varieties will plant about forty hills;

One ounce late will plant about twenty hills;

3 to 4 pounds to the acre.

Hubbard—The leading squash for fall and winter use, hard skinned, flesh dark yellow, fine grained, dry, sweet, rich. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

Warty Hubbard—This new strain of the Hubbard is an improvement. The wartiness indicates a very hard shell, which is one of the best features of a long keeping squash. It also denotes extra choice quality; the harder and more warty the shell of a Hubbard the more delicate and sweet the flesh. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

Sibley—An excellent variety, flesh solid, thick and richly colored. Ripens about the same time as the Hubbard. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 80c.

Summer Crook Neck—Early, productive, and of good quality. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 70c.

Marblehead—A very good winter squash, similar to the Hubbard. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

White Bush Scalloped—Light cream color, large, flat, scalloped shaped, early. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

Boston Marrow—A winter variety of excellent quality. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 70c.



Hubbard Squash.

TOMATOES.



One ounce will produce about 1,200 plants.

Spark's Earliana—This is the earliest smooth, bright red tomato of good size now in cultivation. Plants are quite hardy, with rather slender open branches and moderate growth, well set with fruits, nearly all of which ripen very early in the season. The tomatoes are deep scarlet, generally smooth, and grow in clusters of five to eight, averaging two and a half inches in diameter. Flesh deep red and of slightly acid flavor. Pkt., 10c; $\frac{1}{2}$ oz., 20c; oz., 35c; $\frac{1}{4}$ lb., \$1.10.

Atlantic Prize—Comes in advance of such standard kinds as Acme, Beauty, etc. It bears in clusters, is of good size, smooth, round and of fine scarlet color. Choicest seed from specimen fruits. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

Buckeye State—A fine new, extra large Livingston sort, nearly one-half larger than Beauty, deep color, smooth, heavy and of splendid quality. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

Bond's Early Minnesota—Most of the extra early varieties are irregular in shape; this is always round and smooth. Vines vigorous, with rather small leaf; fruit of medium size, of good shape, and dark red color. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c.

Stone—Vine vigorous and productive. Fruit round, apple shaped, large, very deep red in color and astonishingly heavy. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c.

Dwarf Champion—Its habit of growth is peculiar, for not only is it dwarf and compact, but the stem being thick, stiff and short-jointed, it is actually self-supporting when laden with fruit. The fruit is of a purplish pink color, always smooth, and the flesh solid and of fine quality. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c.

Yellow Plum—Good for preserving and pickling, plum shape, solid and smooth. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 60c.

Acme—Early, medium size, very solid and productive, dark red, slightly tinged with purple. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c.

Livingston's Beauty—A very fine variety of large size, grows in clusters of four or five. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c.

TURNIPS.



One ounce for 150 feet;
two pounds to the
acre.

Culture—For early use, sow the small sorts as soon as the ground can be worked in the spring, in drills 14 inches apart. Rutabagas 30 inches. Thin plants of early varieties

Early Purple Top Munich Turnip. to 6 inches apart, and the Swedes to 1 foot apart. For fall and winter use, the early kinds should be sown from July 15 to August 15. Swedes from June 15 to July 15.

Early Purple Top Munich—A German variety, remarkably handsome, very early with purplish red top, flesh snow white and of fine flavor. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 45c.

Red Top White Globe—This is the largest yielder on the list and very desirable for table use or stock. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c.

White Egg—A rapid growing variety, egg shaped. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 45c.

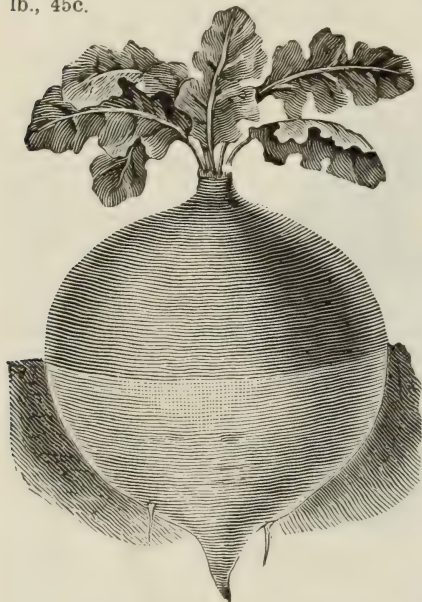


Yellow Aberdeen—Hardy and productive, good keeper, color pale yellow. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c.

Early Flat White Dutch—Standard variety, good marketable size, pure white, small top, with but few strap shaped leaves. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c.

Long White, or Cow Horn—This variety is carrot-like in form, growing nearly half out of the ground and generally slightly crooked. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c.

Purple Top Strap Leaf—A well known popular variety, either for table or stock. Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 35c.



Imperial Hardy Swede Rutabaga.

RUTABAGA (Swedish Turnip).

Imperial Hardy Swede—Flesh orange yellow, of firm texture, very sweet, mild and well flavored. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c.

White Sweet German—Large size, oval form and very solid, flesh pure white and sweet. This is the best keeping variety. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c.

Skirving's Improved Purple Top—A very popular variety; flesh firm, yellow, sweet and finely flavored. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 35c.

SWEET, POT AND MEDICINAL HERBS.

Herbs in general love a mellow and free soil. The chief points are to cut them on a dry day, when not quite in full bloom, and to dry them quickly in the shade, and when dry pack close in dry boxes, keeping them entirely excluded from the air.

	Pkt.	Oz.		Pkt.	Oz.
Anise	5c	10c	Marjoram, Sweet...	5c	10c
Basil, Sweet	5c	15c	Rosemary	5c	25c
Caraway	5c	10c	Sage	5c	15c
Coriander	5c	10c	Saffron	5c	10c
Dill	5c	10c	Savory, Summer...	5c	10c
Fennel	5c	10c	Thyme	5c	20c
Horehound	5c	25c	Wormwood	5c	20c
Lavender	5c	15c			



Marjoram.

VINE PEACH.



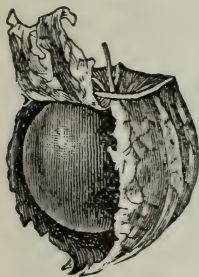
The vine is somewhat similar to the muskmelon vine, and requires the same cultivation. The fruit is of a bright orange-yellow color, somewhat russeted. For sweet pickles, pies or preserving, they are superb. Can be used in every way in which you would use a peach except that they are not usually liked raw. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

GARDEN LEMON.

Fruit is of the shape shown in our engraving, is somewhat smaller than Vine Peach, has thinner flesh, and is decidedly more acid, thus dispensing with the sliced lemons which are so important in putting up the Vine Peach. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

GROUND CHERRY.

Improved Yellow—They grow well on most any dry soil; are easier raised than the tomato, and are prolific bearers, and oh! such luscious fruit. For sauce they are excellent, and for pies nothing can equal them for taste and flavor. They are delicious as preserves, and when dried in sugar are much better than raisins for cakes and pudding. Pkt., 5c; $\frac{1}{2}$ oz., 25c; oz., 40c.



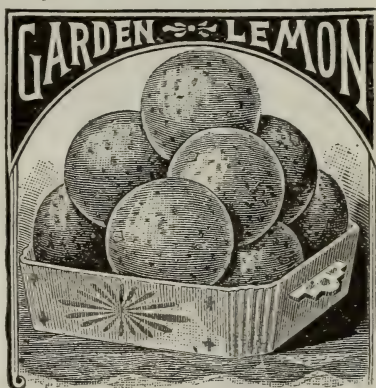
Ground Cherry.

CHUFAS OR EARTH ALMOND.

In sweetness and flavor they resemble the coconut or almond and are considered very nice put on the table in a fruit dish with candies, as an after-dinner relish. Very prolific, a single one yielding from two to four hundred. The nuts grow underground, very near the surface. Plant in April, 10 inches apart, in $2\frac{1}{2}$ foot rows. Cover them lightly. If seed is very dry, soak well before planting. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 50c.

RED CROSS PEANUTS.

As early as the earliest, and of the best quality. Boys, here is a chance for you. Think of growing peanuts in your own garden and having plenty of them to eat. Shell the nuts carefully so as not to break the inside skin, and plant as soon as the ground becomes warm, from two to three feet apart each way, four or five in a hill, covering two inches. The soil should be deep and mellow. Large pkt., 10c; lb., 40c, postpaid.



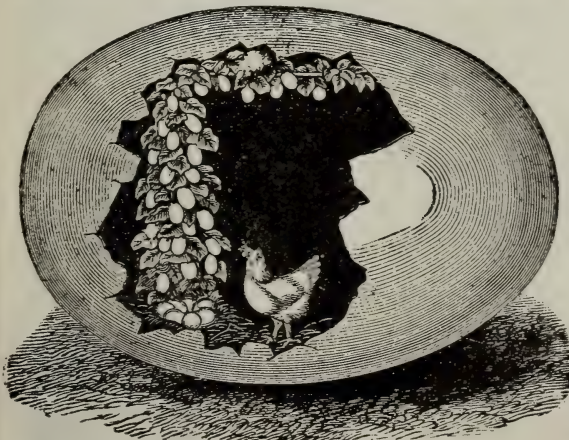
JAPANESE NEST EGG

GOURDS.

Grows almost uniformly to the size, color and shape of a hen's egg. The shells are hard and make the very best nest eggs, as they do not crack. The largest ones when sawed in two make excellent pots for starting tomato, strawberry and other plants. Pkt., 5c; oz., 15c.

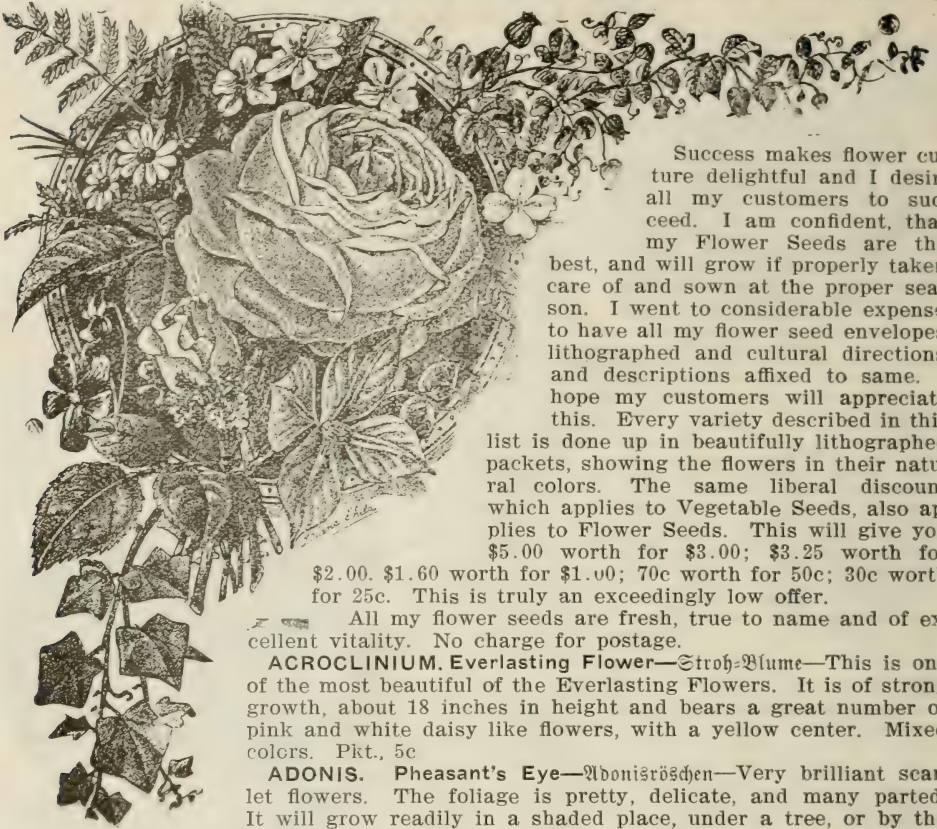
SPECIAL OFFER.

One packet each of Vine Peach, Garden Lemon, Ground Cherry, Chufas, Red Cross Peanuts and Japanese Nest Egg Gourds for only 25c.



Japanese Nest Egg Gourds.

KOSS' SELECT LIST OF FLOWER SEEDS



Success makes flower culture delightful and I desire all my customers to succeed. I am confident, that my Flower Seeds are the best, and will grow if properly taken care of and sown at the proper season. I went to considerable expense to have all my flower seed envelopes lithographed and cultural directions and descriptions affixed to same. I hope my customers will appreciate this. Every variety described in this list is done up in beautifully lithographed packets, showing the flowers in their natural colors. The same liberal discount which applies to Vegetable Seeds, also applies to Flower Seeds. This will give you \$5.00 worth for \$3.00; \$3.25 worth for

\$2.00. \$1.60 worth for \$1.00; 70c worth for 50c; 30c worth for 25c. This is truly an exceedingly low offer.

All my flower seeds are fresh, true to name and of excellent vitality. No charge for postage.

ACROCLINIUM. Everlasting Flower—*Stroh-Blume*—This is one of the most beautiful of the Everlasting Flowers. It is of strong growth, about 18 inches in height and bears a great number of pink and white daisy like flowers, with a yellow center. Mixed colors. Pkt., 5c

ADONIS. Pheasant's Eye—*Adonisröschen*—Very brilliant scarlet flowers. The foliage is pretty, delicate, and many parted. It will grow readily in a shaded place, under a tree, or by the fence, and requires no extra care in planting and cultivating. Hardy annual, one foot high. Pkt., 5c.

AGROSTEMMA.—A bright little pink-like flower, of deep crimson with lighter center, produced on long slender stems. The plant is branching, rather dwarf, and pretty for edging. Also called "Mullein Pink." Hardy perennial! Pkt., 5c.

ALYSSUM. Sweet—*Steinraut*—A desirable hardy annual, flowering from early spring until killed by frost. Flowers pure white. Pkt., 5c.

ANTIRRHINUM. Snap Dragon—*Vögelbaum*—The Antirrhinum, perhaps better known by its old and popular name, Snapdragon, is an old favorite border plant, with dark and glossy leaves, and large and curiously shaped flowers, with finely marked throats. They have been much improved by careful selection, and are now really magnificent flowers. They will blossom the first season from seed sown in the spring, but the blossoms will be much stronger the second season. Succeeds best in dry, loamy soil. Tender perennial, two feet high. Mixed colors. Pkt., 5c.

ASTERS. *Aster*—This splendid class of plants is not only one of the most popular but also one of the most effective of our garden favorites, producing in profusion, flowers in which richness and variety of color are combined with the most perfect and beautiful form. For flower beds and mixed borders it stands unrivalled, hardy annual.

Simple's Finest Mixed—A new branching, long-stemmed Aster. Pkt., 10c.

Paony Flowered Mixed—Beautiful large flowers, all colors. Pkt., 10c.

White Rose—A pure white Aster. Fine for bouquets. Pkt., 10c.

German Quilled Mixed—All shades. Pkt., 5c.

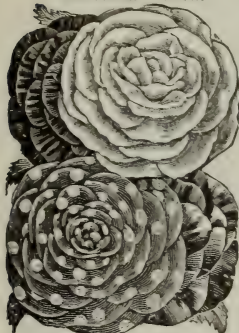
Dwarf Bouquet Mixed—A splendid mixture. Pkt., 5c.



Sweet Alyssum.



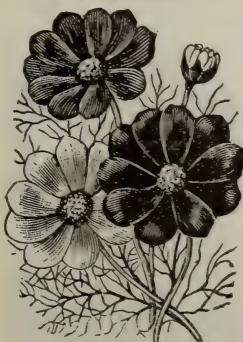
Bartonia Aurea.



Camellia Flowered Balsams



Cockscumb.



Cosmos.

BACHELOR'S BUTTON—Kornblume—A perfectly hardy border plant, old fashioned, but very popular. Perennial, blooming the first season. Mixed Colors. Pkt., 5c.

BALSAMS. Lady Slippers—Balsaminen—Highly colored and free bloomers. By transplanting them once or twice the flowers are apt to be more double. Hardy annuals, growing two feet high.

Camellia Flowered—Extra fine mixed. Pkt., 10c.

Double Mixed—A good assortment. Pkt., 5c.

Camellia Flowered White — A pure white, double blossom, very choice. Pkt., 10c.

BARTONIA, Aurea—One of the most showy of our hardy annuals. The plants grow 18 to 24 inches high with thistle-like downy leaves, begin to flower early and continually. Flowers saucer-shaped, 2½ inches across, and of a bright metallic yellow. Pkt., 5c.

CADENDULA Meteor. Pot Marigold—Free flowering plants of easiest culture, succeeding everywhere, and blooming continually. Extremely showy, having double flowers of large size and intense glowing colors. Pkt. 5c

CALLIOPSIS—Schöngesicht—Showy, free blooming bedding plants, producing numerous rich colored flowers, sometimes called Beautiful Eye. Annual, mixed colors of every shade. Pkt., 5c.

CANNA, Indian Shot—Distinguished by the luxuriance and diversity of color of their foliage, but above all by the size and brilliancy of hue in their flowers.

Crozy's Finest Mixture—Pkt., 10c.

CANDYTUFT—Schleifenblume—Favorite plant of the easiest culture, useful for growing in beds or masses, bloom long and freely. Hardy annual.

White—Large, pure white trusses. Pkt., 5c.

Mixed Colors—Fine, sweet scented, very popular. Pkt., 5c.

CANTERBURY BELLS—(Campanula)—Glockenblume — Flowers large and bell-shaped. Succeeds best in light, rich soil. Pkt., 5c.

CHRYSANTHEMUM—Flower freely during summer and fall months. Pkt., 5c.

CLARKIA—The flowers are very pretty and of many colors, single and double; hardy annuals. 1½ ft. high. Pkt. 5c.

COCKSCOMB. Celosia. — "Hahnenkamm" — Annual plants, tropical origin and one of the most showy. Pkt., 10c.

COSMOS—Annuals growing to the height of 7 feet, with masses of elegant foliage and star-like flowers of all colors. Pkt., 5c.



Calliopsis.



Canterbury Bells.



CANDYTUFT.



Datura.

CARNATION, Marguerite—Nesse

These superb new dwarf Carnations have created a great sensation, not only by reason of their fine double, fragrant flowers, but also because they can be treated as annuals. Like the *Dianthus* they flower freely the first season from seed. Pkt., 10c.

DAHLIAS—*Georginen*—The Dahlias can be grown easily from seed and flower beautifully the first season. Choice Mixed. Pkt., 5c.

DAISY—*Tausendschön*—One of the most charming spring flowers, and indispensable for cool, shady places. With protection they will withstand the winter; double mixed, fine colors. Pkt., 10c.

DATURA—An attractive plant with large foliage and of vigorous growth, producing a succession of large, white, purple-tinted, trumpet-shaped flowers. Pkt., 5c.

ESCHSCHOLTZIA, California Poppy—*Ejdscholtzia*

—Very attractive plants for beds, edgings or masses; profuse flowering; in bloom from June until frost; 10 to 12 inches high; leaves finely cut; very showy colors. Pkt., 5c

FORGET-ME-NOTS—*Vergißmeinnicht*—Popular and beautiful little plants with neat star-like flowers, blooming the first year from seed; an old favorite. Pkt., 10c.

FOUR O'CLOCK.—

Flowers open in the afternoon. The flowers are funnel-shaped, very fragrant; hardy annuals. Pkt., 5c.

FOX GLOVE—*Fingerhut*—Fine mixed; long racemes of beautifully spotted flowers. Pkt. 5c.

GAILLARDIA—The flowers are some 2 or 3 in. across; semi-globular, dense, and therefore very showy. Pkt., 5c.

GERANIUM—Can easily be raised from seed, germinating in from 5 to 7 days. Fine mixed. Pkt., 10c.

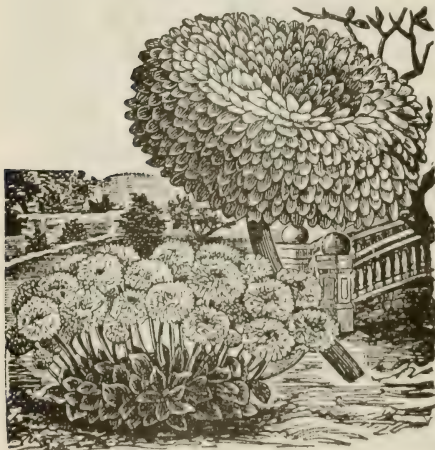
GILIA—A familiar and popular garden plant, with finely cut foliage. Pkt., 5c.



Marguerite Carnation.



Eschscholtzia.



Double Daisy.



Geranium.

HELICHRYSUM—Everlasting Flower—Strohblume—Pkt., 5c.

HOLLYHOCK—Malve.—Very double and fine, mixed colors. Pkt., 10c.

ICE PLANT—Handsome and curious plants for hanging baskets, rock work, vases and edges. Pkt., 5c.

LARKSPUR, Perennial—Rittersporn—Very ornamental, combining the greatest variety of brilliant colors with duration and profusion of bloom. Pkt., 5c.

LOBELIA, Gracilis—Fine for pots, hanging baskets and vases. Pkt., 5c.

LYCHNIS Chalcedonica—Brennende Liebe. (Burning Star)—Blossoms of an intense, bright scarlet. Pkt., 5c.

MARIGOLD—Sammetblume—Well known free flowering plants, with double flowers or rich and beautiful colors, half hardy annuals, 1 foot high. Pkt., 5c.

MIGNONETTE, Grandiflora—Kefeda—A well known favorite that continues to bloom and send forth its sweetness all the season; hardy annual. Pkt., 5c.

MOURNING BRIDE, The Sweet Scabious. is not so generally cultivated as it deserves. The perfectly double flowers are fine for cutting, they are gracefully borne upon long slender stems, well above the foliage. All colors. Pkt., 5c.

NIGELLA, Love in a Mist—Jungfrau im Grünen—Very interesting and free flowering plants, with curious looking flowers and seed pods; hardy annuals. Pkt., 5c.

NICOTIANA, Giant—Tender annual. Five feet high. Magnificent sub-tropical ornamental foliage and flowering plants for the lawn or borders. Pkt., 10c.

NOLANA—A handsome trailing plant, with small, bell shaped flowers of delicate shades of blue, marked with yellow and white; fine for hanging baskets, rock work and beds. Choice mixed colors. Pkt., 5c.

PETUNIA—Charming free flowering effective plants of easy culture, tender perennials, choice mixed. Pkt., 5c.

PHLOX, Grandiflora — Flammenblume—Choice mixed drummonds. Pkt., 5c.

Phlox, Star of Quedlinburg—A very striking novelty. Dwarfier than the Phlox Grandiflora. Flowers star-shaped; assorted colors. Pkt., 5c.

PINKS, Chinese Double Mixed—Garten-nelle—Well known favorites; their neatness and beautiful colors can hardly be surpassed; they are easily raised from seed and delight in a mellow, sandy soil. Pkt., 5c.

POPPY—Mohn
A genus of showy free - flowering plants, producing a rich and effective display; choice mixed double. Pkt., 5c.



Hollyhock.



Ice Plant.



Nicotiana.



Petunia.



Helichrysum.



Mignonette.



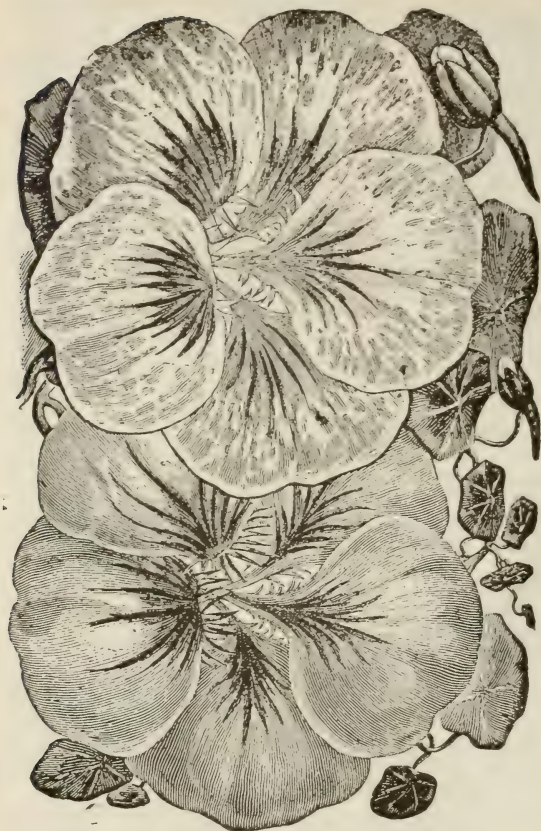
Mourning Bride.



Phlox.



Poppy.



Nasturtiums.

NASTURTIIUM. *Tropaeolum*—*Rapuzinerkraut*—These will always be valuable summer flowers. They stand any amount of heat and drought. They will flower better, however, in a poor, rocky soil, as a rich one has a tendency to make them run "to leaf." Hardy annual.

Majus—Tall, all colors, mixed. Pkt., 5c.

Minor—Dwarf, all colors, mixed. Pkt., 5c.

PANSY—*Stiefmütterchen*—Too well known to need any description. Hardy perennials, flowering the first year.

Black—A group of these present a fine appearance. Pkt., 10c.

White—A delicate, pure white. Pkt., 5c.

New Superb—Very pretty. Pkt., 10c.

Large Flowered Mixed—Extra choice. Pkt., 15c.

Mixed—All shades. Pkt., 5c.

German Mixture—A splendid selection of the various shades. Pkt., 10c.

PORTULACA. *Moss Rose*—*Portulaca-Röschen*—A popular strong-growing annual, delights in sandy soil; neither heat nor drought is too great for it.

Double Rose Flowered—Mixed. Pkt., 15c.

Single Mixed—Brilliant colors. Pkt., 5c.



Portulaca.



Pansy

PYRETHRUM—(Feverfew)—Hardy, free flowering perennials, growing well in any good garden soil and producing a constant bloom. Pkt., 5c.

SENSITIVE PLANT—An interesting and curious plant, with globular heads of pink flowers, well known for the extreme irritability of its leaves and foot stalks, which close and droop at the slightest touch; tender annual, 2 feet high. Pkt., 5c.

RICINUS. Castor Oil Bean—Wunderbaum—A tall, majestic, ornamental foliage plant with leaves of a metallic hue; tender annual. Pkt., 5c.

SALPIGLOSSIS—Trompetenzunge—One of the most graceful in growth as well as one of the most beautiful in flowers of the many easily grown garden annuals. Pkt. 5c.

SCHIZANTHUS, or Christmas Orchid Flower—The plants that have flowered in the garden may be removed to the house in autumn and will continue to bloom during the winter months. 2 ft. in height and bearing hundreds of flowers. Pkt., 5c.

STOCKS. Gillyflower—Leutchen—Exceedingly valuable plants, producing an abundance of flowers of various shades and colors, and of the most delicate fragrance.

Dwarf German Ten Weeks—Good mixture. Pkt., 5c.

Fine Mixed Ten Weeks—Extra Choice. Pkt., 10c.

SWEET WILLIAM—Bartnesse—These plants when in full bloom present a beautiful sight, and for a fine display are unsurpassed; hardy perennial, blooming freely the first year from seed.

Single Mixed—Pkt., 5c.

Double Mixed—Pkt., 10c.

VERBENA—Eisenkraut—A very effective bedding plant. Flowers fine for bouquets; half hardy perennial, blooming the first season from seed.

Grandiflora—Saved from the choicest and most perfect flowers and best colors. Pkt., 10c.

Fine Mixed—A good mixture. Pkt. 5c.

VIRGINIA STOCK—Free flowering annuals of easy culture, with flowers of red, white, rose and the new marbled varieties; splendid for edgings. Pkt. 5c.

WALL FLOWER—The flower spikes are of great substance, very full, rounded at the top, of a handsome gold-red color, and unusually rich, sweet fragrance. Sow early in spring and it will bloom till frost. If sown in autumn it will bloom in spring. Pkt., 5c.

ZINNIA—Zinnia A grand genius of autumn flowering plants, combining the greatest richness and diversity of color with unequalled profusion and duration of bloom. Half hardy annual.

Double Mixed—Grows 1½ feet high. Pkt., 5c.



Schizanthus or Christmas Orchid Flower.



Verbena.



Ricinus.



Wall Flower.



Virginia Stock.



Salpiglossis.



Sweet William.



Zinnia.



SWEET PEAS.

There is no flower grown that is more popular, or that is more admired by all than the Sweet Pea, with its dainty colors and delicate perfume. The following list has been carefully selected and will be found to cover the entire range of colors and shades.

Blanche Burpee—Eckford's large pure white. Pkt., 5c.

Katherine Tracy—A soft but brilliant pink. Pkt., 5c.

Little Dorrit—Pink standard, white wings. Pkt., 5c.

Mars—Eckford's new bright scarlet, large and well formed. Pkt., 5c.

Monarch—Deep maroon and dark blue. Pkt., 5c.

Mrs. Jos. Chamberlain—Striped, bright rose on white. Pkt., 5c.

Stanley—Rich dark maroon. Pkt., 5c.

Emily Henderson—White, persistent bloomer. Pkt., 5c.

Blanche Ferry—Pink and white; popular. Pkt., 5c.

Salopian—Decidedly the finest scarlet Sweet Pea in cultivation. Pkt., 5c.

Pink Cupid—Dwarf, growing only six inches high. Bears generally three and sometimes four flowers to a stem. Blossoms, pink standards, wings a faint rose. Pkt., 5c.

White Cupid—The flowers are pure white, of good substance, and are very sweet. Pkt., 5c.

Eckford's Choice Mixture—Contains all the leading varieties and is a beautiful assortment. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c.

Fine Mixed—All shades. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 45c.

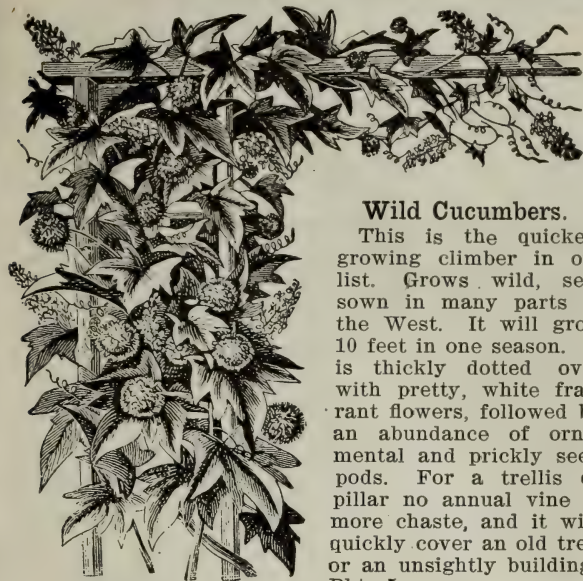
WILD FLOWER GARDEN.

Mixed Seeds—The "Wild Garden" for its unusual and varied effects, cheapness, and the small amount of labor necessary for its construction has no rival. The "Wild Garden Seeds" are a mixture of the different hardy flowers, thus insuring on account of the different seasons of bloom, something new almost every day. Pkt., 5c; oz., 20c; ¼ lb., 60c.



Cupid Sweet Peas.

A PAGE OF USEFUL AND BEAUTIFUL VINES.

**Wild Cucumbers.**

This is the quickest growing climber in our list. Grows wild, self-sown in many parts of the West. It will grow 10 feet in one season. It is thickly dotted over with pretty, white fragrant flowers, followed by an abundance of ornamental and prickly seed pods. For a trellis or pillar no annual vine is more chaste, and it will quickly cover an old tree or an unsightly building. Pkt., 5c.



Cobaea Scandens.

Cobaea-Scandens—A magnificent rapid growing climber with beautiful foliage and large bell-shaped purple flowers; trained on piazzas, arbors, etc., the offset is grand; half hardy perennials, often attaining a height of 20 feet the first season. Pkt., 10c.

Balloon Vine—Remarkable for its inflated membranous capsules, and sometimes called Love-in-a-Puff. A rapid and graceful climber: Tender annual, 6 feet high. Pkt., 5c.

Cypress Vine—Cypresse—One of the most elegant vines, with delicate fern-like foliage and beautiful star-shaped flowers. Tender annual. Mixed, scarlet and white. Pkt., 5c.

Moonflower—Monblume—Bears immense white flowers, five to six inches in diameter, with a five-pointed star in the center; the flowers open at dusk or earlier on cloudy days, at which time they are deliciously fragrant. Pkt., 10c.

Morning Glory—Winben—A popular climber of free growth and beautiful flowers, too well known to need any description; mixed colors. Pkt., 5c.

New Japanese Morning Glory—Gigantic flowers, magnificent foliage, exquisite new colors. Pkt., 10c.

Passion Flower—A beautiful climbing vine, producing peculiar shaped flowers. Hardy perennial. Pkt., 5c.

Gourds—Zierfürbisse—A great variety of curiously formed and marked fruit; the vines are of rapid growth, and with luxuriant foliage, adapted for covering screens, arbors, etc. Pkt., 5c.



Cypress Vine.



Ornamental Gourds.

SPECIAL OFFER—One packet of each of the above nine Climbers for only 40 cts.

Mixed Climbers—A mixture of many varieties of climbing plants which will produce the most gorgeous effect. When the space to be planted is limited this will save some expense in purchasing so many varieties. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 45c.



Passion Flower.

SUMMER FLOWERING BULBS.

I offer only a select list of choicest Summer Flowering Bulbs that can be grown easily by anyone under ordinary conditions. These will soon make a gorgeous display, flower the first summer and bloom and multiply season after season.

DAHLIAS.

Nothing more showy than our Large Double Dahlias.

Our mixture of Dahlias is made up of 15 or 20 of the choicest varieties. The colors range from deep maroon and crimson through all shades of pink and yellow to pure white. If people only realized what a beautiful show a few Dahlia bushes make in a garden and how easy it is to grow them, everybody would have some. Try it this year and be convinced. 15c each, 4 for 50c.

GLADIOLI.

On account of its intrinsic merit alone the Gladiolus is entitled to the high rank it holds among flowers; but when is considered, also, how easy is its culture, and for what a small sum a splendid assortment can be secured, it seems a matter of surprise that they are not found around every home. 3 for 10c; dozen, 30c.



Gladioli.

PRIZE GLOXINIA—Magnificent; will bloom in 6 weeks from the planting of the dry bulb. Bulbs, each 10c; 3 for 25c; 10 for 60c.


GIANT BEGONIAS. Tuberous Rooted—Very beautiful. The flowers, which are of brilliant color, and large size, make a magnificent display throughout the summer. Single—Scarlet, orange, pink, white, yellow and crimson, each, 8c; doz., 80c. Double—Scarlet, orange, pink, white, yellow and crimson, each, 10c; ½ doz., 50c.

TUBEROSE. Double Dwarf Pearl—Much larger than the common Tuberose. Wonderfully fragrant. Notice, please, our very low prices. For large bulbs, each, 5c; doz., 35c.

CALADIUM. Esculentum—(Elephant's Ear.) A grand tropical looking plant, growing 4 to 6 ft. high, producing leaves of immense size. A favorite for specimens on the lawn. Wants rich soil and plenty of moisture. Fine large bulbs. Each, 20c; 3 for 50c.



Pearl Tuberose.



Makes Flowers Flourish.

Flowers are like people. Their health depends upon their food. It must be *nourishing*, but not too rich to force growth and cause reaction. The one chemically correct flower food for house plants is

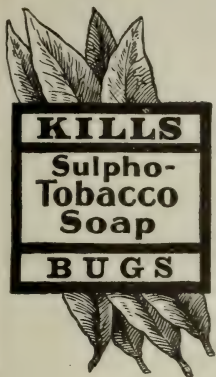
Walker's Excelsior Brand.

It has no odor whatever, and can be used dry or dissolved in water for sprinkling. Use it and your flowers will flourish and their health will last.

Small size (feeds 25 plants 6 months), 25c; large size (enough for a year), 50c. Sent prepaid anywhere. With each package we send FREE the book, "How to Make the Window Garden a Success."



Caladium.



SULPHO-TOBACCO SOAP

A Wonderful and Inexpensive Insecticide

Sulpho-Tobacco Soap is a powerful agent for the destruction of all bugs and insects. One or two applications will rid plants of the pests. Full directions with each cake.

Destroys cabbage-, squash- and potato-bugs, currant-worms, lice, green-fly, mealy bug, red spider, etc. Sure death to all plant insects indoors and out-of-doors. Of special value for spraying shrubs, fruit-trees and vines.

3-oz. Cake makes $1\frac{1}{2}$ gallons prepared solution. 10 cents.
Mailed, postpaid, for 13 cents.

8-oz. Cake makes 4 gallons prepared solution. 20 cents.
Mailed, postpaid, for 28 cents.

10-lb. Cake makes 80 gallons prepared solution. By Express, \$3.00.

Free with every order, "The Window Garden," a booklet by Eben E. Rexford, giving valuable information on the cultivation of plants and the extermination of insects.

Our Raw Bone Meal is evenly ground and especially adapted for drilling. For lawn use 10 lbs. for 250 square feet. Price: 1 lb., 5c; 5 lbs., 20c; 10 lbs., 35c; 25 lbs., 75c; 50 lbs., \$1.20; 100 lbs., \$2.15.

RAW BONE MEAL.

HAMMOND'S SLUG SHOT.

An insecticide of well known virtue, in the form of a very fine powder; for the cut worm, caterpillar, currant and gooseberry worm it is invaluable. It will also destroy many other insects infesting trees, vines, plants, etc. Lb., 6c. 5 lbs., 25c.

"PLANET JR." GARDEN TOOLS FOR 1905.

Space will not permit illustrating and describing the "Planet Jr." tools, but I will gladly send a fully illustrated catalogue to any who desire it, and I can supply promptly anything ordered. "Planet Jr." goods are standard machines, the best on the market. In sending your orders to me, you can rely on getting bottom prices.



THE EUREKA SEED DRILL.

FOR KITCHEN, GARDEN AND HOT BED.



This drill you must have. It is the only machine suited to sow in a hot bed. Sows up close to the sides in straight rows. Sows the smallest packet of seeds as well as a large bulk. This drill is not a toy, but a strong, practicable machine that will last many years.

Wholesale Price, Each.....\$1.00

FANNING MILL.

Do You Want to Own the Best?

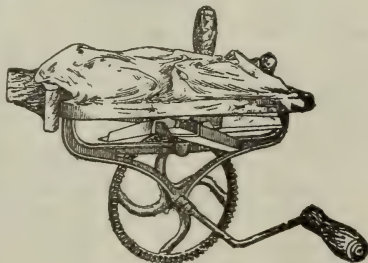
If so, it must be the CLIPPER.

There can be only one Mill that is the best, and we unqualifiedly guarantee the Clipper to be that Mill.

It is a great satisfaction to handle such a mill as the Clipper. Not only does it do its work better and more economically than other mills, but it will outwear a dozen mills such as are ordinarily put up for farm use. It is built "to stay" and will last a long lifetime.

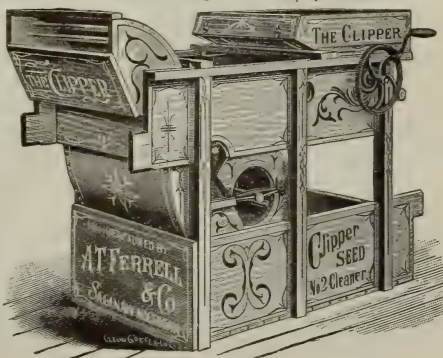
Our Special Price on the No. 1 Clipper Mill \$20.00 F. O. B. Milwaukee.

NATIONAL BROADCAST SEEDER.



Ball Bearing.

Full Instructions with Every Machine. Price, \$1 50.



POULTRY SUPPLIES.

In the following pages will be found described and priced a full line of Standard Poultry Supplies. By "Standard" we mean the best manufactured, the best known. We sell the best of everything for the poultryman and guarantee it to be the best. If you do not find what you want in this list, ask for it. Remember, that we carry the largest and most complete stock in the Northwest. Address all correspondence and orders plainly to,

THEO. KOSS, MILWAUKEE, WIS.



No. 2—220 Egg Cyphers Incubator.

Second—That where it is run in competition with any incubator of a different make, it shall, in three or more hatches, bring out a larger average percentage of the fertile eggs in good healthy chicks or ducklings than does its competitor.

Third—That each and every incubator we send out will do satisfactory work in the hands of the purchaser who will give it a fair trial, or it can be returned to us in 90 days, in good repair, less reasonable wear, and the purchase price will be refunded.

In other words, we guarantee that the Standard Cyphers Incubators will do satisfactory work in your hands—not simply that it has done so for someone else in time past, or may do so in the future. Our transaction is with you. The position that we take is that if you exercise the necessary intelligence to discriminate between the Cyphers and a cheap, inferior make of incubator, we will guarantee that you have sufficient judgment to operate the Cyphers with success. On these terms you buy a certainty when you buy the Cyphers.

THE CYPHERS WARRANT.

The Standard Cyphers Patent-Diaphragm, Non-Moisture, Self-Ventilating and Self-Regulating Incubators, manufactured and sold under registered trade-mark, are warranted by us as follows:

First—To require no supplied moisture, thus solving and disposing of the troublesome "moisture question."

Second—To be self-ventilating, the air in the egg chamber remaining sweet and pure.

Third—To be so constructed that the temperature in the egg chamber is more uniform and equable than in any other incubator.

Fourth—To be self-regulating, being equipped with the most sensitive, accurate and durable regulator thus far invented.

Fifth—To be precisely as represented in construction, materials and workmanship, and with reasonable care, to last ten years without repairs.

Sixth—To operate with less oil and at less expense than any other make of incubator, and to be as free from offensive odors as an ordinary house lamp.

Seventh—To be easy to set up, hence the most satisfactory incubator for the novice, and to be strictly automatic in operation, except the trimming of the wick, filling the lamp and turning the eggs.

Eighth—To be in all essentials the simplest and easiest to operate and control, requiring less labor and less attention than any other style or make of incubator in the world.

SIZES AND PRICES, CYPHERS INCUBATORS.

No. 0— 60-egg.....	\$12.00	No. 2—220-egg.....	\$24.00
No. 1—120-egg.....	17.00	No. 3—360-egg.....	30.00

THE CYPHERS INCUBATORS.

THE STANDARD CYPHERS IS THE ONLY INCUBATOR THAT IS POSITIVELY GUARANTEED TO DO SATISFACTORY WORK IN THE HANDS OF EVERY PURCHASER WHO WILL GIVE IT A FAIR TRIAL.

THE CYPHERS GUARANTY.

Additional to the warrant given below, each and every Standard Cyphers Incubator sold by us is positively guaranteed as follows:

First—To produce larger, stronger, and healthier chicks or ducklings than any other style or make of Incubator.

CYPHERS UNEQUALED THREE-
APARTMENT BROODER, STYLE A.

Next to its incubator, the Cyphers Company prides itself on the three-apartment outdoor brooder it manufactures. We unhesitatingly pronounce this to be the best brooding device on the market for **either indoor or outdoor use**. Briefly, the special merits of this brooder are:

First—It is the largest single-flock popular-priced brooder on the market.

Second—It is rain-proof and storm-proof, having a heavy tin-covered roof.

Third—It is fire-proof and is heated by a Cyphers Safety Brooder Stove instead of a lamp.

Fourth—The stove is safe and trustworthy.

Fifth—The fumes of the stove cannot get into the chick chamber.

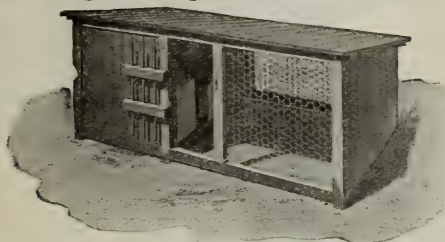
Sixth—The brooder stove is easy to get at.

Seventh—The cylindrical chick guard preventing coming in contact with the heat dome.

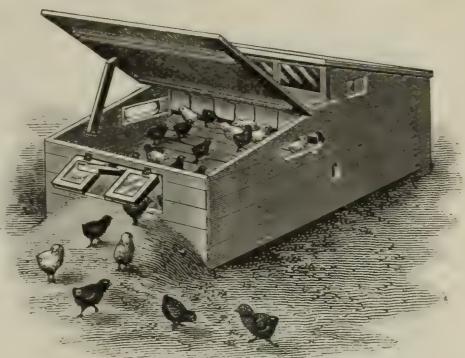
Eighth—When the temperature under the hover is 90 degrees, the temperature just outside the hover is 85 degrees, while in the front apartment it will average several degrees lower. The chicks may therefore suit themselves, going to and from the heat at will.

Ninth—There are no stairs to climb, and no danger of little chicks getting lost and chilled while learning the way.

This is positively the best outdoor brooder in all particulars that the Cyphers Company knows how to build. Quantity and quality of material and workmanship considered, we guarantee it to be the cheapest outdoor brooder on the market. It is sold with the explicit understanding that if any other outdoor brooder can be bought that represents as much value and will do as good work, this brooder can be returned in good condition, and the purchase price will be refunded.



Cyphers New Model Coop for Hen with Chicks.



Three-Apartment Cyphers Unequaled
Outdoor Brooder, Style A (Front View).

Price\$12.00

nts crowding and keeps the chicks from

CYPHERS NEW MODEL BROOD
COOPS.

This may also be used as a home for the chicks after they are weaned or as a colony house for a small flock. Size is 4 feet 6 inches wide, 2 feet deep. As shown by cut it has two compartments; a closed or house part and a wire-enclosed shelter or exercise room which provides safety from cats, rats and hawks, and protects from the weather. It is well made and attractively painted.

Priceeach, \$3.00

FULL-NEST EGG FOOD MAKES HENS LAY

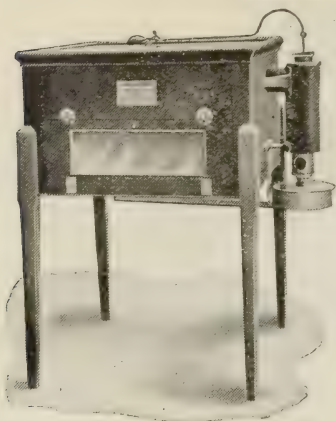
Everybody wants eggs when prices are high. You can get them by using **FULL-NEST EGG FOOD**. An increase of eight eggs a month will pay for a 42-ounce package of Full-Nest Food, which will bring you many times that number of extra eggs. You can get a nestful of eggs every day in winter by using Full-Nest Egg Food. Try it, get more eggs and be convinced.

For growing chicks **Full-Nest Egg Food** is the best substitute for insect life. Thousands of chicks are reared when insect food is out of season or unobtainable. **Full-Nest Egg Food** can always be had and contains in a highly concentrated form, scientifically proportioned, the principal food elements supplied by bugs and insects, thus making it an ideal substitute for insect life. When used according to directions it will prevent bowel trouble and other chicken ailments.

42 oz. package.....	\$0.25
25 lb. pail.....	2.00

25 lb. pail.....	2.00
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Farm Economy Incubator.

The regulating device of these machines is simple and very effective.

The main difference between the Farm Economy and the Boys' Choice is that of size; and the fact that the Boys' Choice has only a single wall, while the Farm Economy has double walls. Being smaller, the Boys' Choice has no nursery, yet is equipped with lower diaphragm attached to bottom of egg tray. Both are self-regulating, self-ventilating and non-moisture incubators.

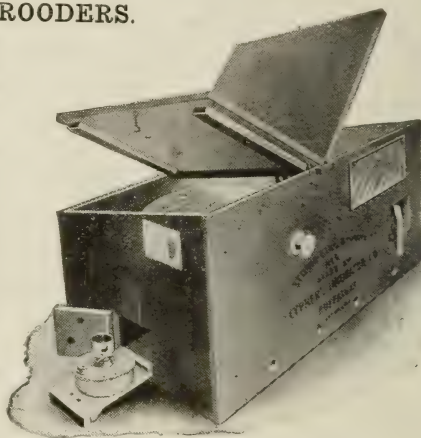
Farm Economy, 100-eggs.....\$10.00 Boys' Choice, 50-eggs.....\$6.50

STORM KING BROODERS.

Recognizing the wide-spread demand for a thoroughly well made, practical brooder that can be sold at a lower price than the Cyphers Standard Style "A" Brooder, we have made arrangements with the Cyphers Incubator Co. for the sale of their Storm King Brooder. This is a combined brooder and colony coop, manufactured in two sizes. The No. 1 has a floor space 24x39 inches and is 50-chick capacity; the No. 2 has a floor space 28x45 inches, and is 75-chick capacity. Aside from size, these brooders are exactly the same in construction. They are built of first-class $\frac{7}{8}$ inch pine lumber, well matched and machined, dressed on both sides, and are free from all loose knots. This lumber is all thoroughly kiln-dried before being worked into the brooders, which prevents it from shrinking and opening up joints when exposed to the weather. We know the Storm King Brooder to be an unequalled artificial mother, and one that will safely care for the chicks from the time they are hatched until they are half grown if need be. The construction of the brooders permits the heating device to be taken out, giving the chicks the entire floor space and making a full capacity cool brooder. When it is time to wean the chicks from the cool brooder and provide them with roosting quarters, the entire floor space of this brooder, together with the lamp slide and other working parts, may be removed and roosts placed on the floor cleats inside the brooder, thus making a well-lighted, well-ventilated colony roosting coop.

While the Storm King Brooder is not for all purposes as serviceable or as satisfactory a brooder as the Cyphers Standard Style "A", we believe that it is more satisfactory than any other low-priced brooder on the market.

No. 1—24x39 inches.....\$6.00 No. 2—28x45 inches.....\$8.00



Storm King Brooder.

KOSS' EGG FOOD.

Promotes Health and Supports during Moulting. A Specific for Laying Hens.

This Food contains no ground oyster shells or ordinary mill feed, but comprises a number of ingredients especially adapted to the wants of laying hens, proportioned and compounded so that the valuable properties contained are supplied in quantity necessary to produce effect. Price, 25 cents per package.

MANN'S GREEN-BONE CUTTERS.

Warranted Against Breakage. Guaranteed to Give Satisfaction. Simplest in Construction. Never Get out of Order.

New design, enlarged table, new device to control feed, you can set it to suit any strength; never clogs.

A Standard Machine, easy and rapid cutting, feeds automatically and leaves both hands free to operate.

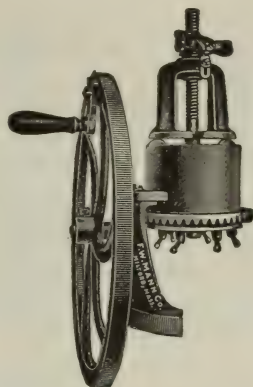
REMEMBER.

Green bones are tough and no matter how perfect the machine is, you want them large enough to cut for your flock easily.

Don't Get too Small a Size.

PRICE LIST.

No. 5C	—With Crank Handle.....	\$ 6.00
No. 5B	—With Balance Wheel.....	8.00
No. 5BM	—With Balance Wheel and Iron Stand.....	10.40
No. 7	—With Balance Wheel.....	12.00
No. 7½	—Combination Hand or Power Cutter.....	16.00
No. 9	—Standard Bone Cutter.....	18.40
No. 11	—Combination Power Cutter.....	26.00



No. 5B, weight 55 lbs.

THE HUMPHREY GREEN BONE AND VEGETABLE CUTTER.

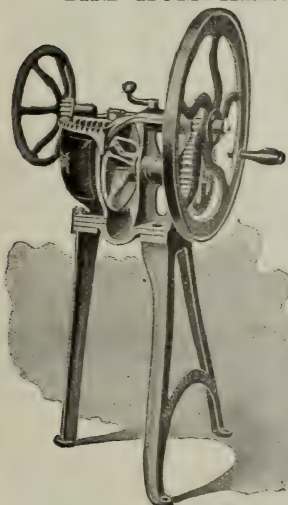
THE OPEN HOPPER TYPE. Sold on a Positive Guarantee to Cut More Bone in Less Time and with Less Labor than any other Bone Cutter Made.

The Humphrey Green Bone and Vegetable Cutter is offered our customers with the assurance that it is the best machine of the kind made today. We recommend it only because we feel certain that it will give satisfaction. It runs so easily, works so rapidly, makes food of such fine quality, that it easily ranks first of all bone cutters. We do not feel that we are called upon to point out the advantages of cut green bone or to dwell upon its value. That is conceded by every poultry man.

PRICE LIST.

No. 1	—Hand Power	\$12.00
No. 2	—Semi Power	13.50
No. 2½	—Hand and Power.....	15.00
No. 3	—Direct Power (large).....	35.00
No. 4	—Geared Power (large).....	45.00

Ask for Special Illustrated and Descriptive Circular.



No. 1—Hand Power.

HUMPHREY CLOVER CUTTER.

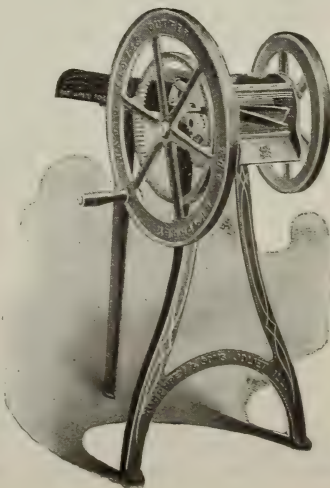
A heavy well-finished machine to cut clover and alfalfa hay into pieces one-eighth inch and less. By the ingenious use of plates and screens all long stems are passed back to the cutters to be recut, so that the product is of even length and of a size that makes it the best prepared green food given to poultry. Forty cuts of the knife for each revolution of the hand wheel makes speedy work of clover cutting, and the heavy balance wheel makes easy work for the operator.

Bench Clover Cutter, weight 85 lbs.....	\$8.00
Stand Clover Cutter, weight 105 lbs.....	10.00

THE HUMPHREY GRIT MORTAR.

The Humphrey Grit Crusher is a circular mortar, 9 in. in diameter and 11 in. high, with a removable perforated bottom. These mortars are one of the handiest necessities about a poultry plant. With one of them you can break up enough grit in half an hour to last your fowls several weeks and the material costs you nothing.

Weight, 40 lbs.....Price, \$3.50



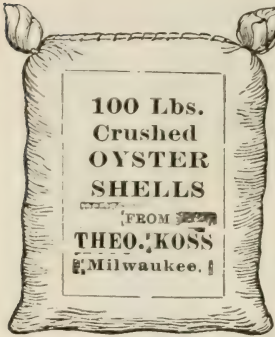
CRUSHED OYSTER SHELLS.

We purchase these goods in car lots, hence can offer them at the lowest rock-bottom prices. Every pound of Oyster Shells offered by us is dried by a patent hot-air process and not by direct fire which burns out some of the most desirable qualities.

Our shells are crushed and ground to the size which expert poultrymen agree to be the best. If you have purchased other brands of Oyster Shells you have noticed that there are 10 to 25 lbs. of waste, consisting of dirt and dust, mixed in with every 100 lbs. of shell. **This means a loss to you.** Every pound of shell we sell is all shell and no waste.

It is needless for us to enlarge upon the value of Crushed Oyster Shells for poultry. Every poultryman realizes their importance as an egg-shell maker and general promotor of good health.

Price: 10 lbs. 10c, 25 lbs. 20c, 50 lbs. 35c, 100 lbs. 60c, 500 lbs. \$2.75. Special prices on larger quantities.

**PREPARED OYSTER SHELLS No. 2.**

This is ground finer than the crushed shells for hens, and is excellent for young chicks and pigeons. Price: 8 lbs. 10c, 25 lbs. 25c, 50 lbs. 45c, 100 lbs. 75c.

MICO-SPAR CUBICAL GRIT.

Mico-Spar Cubical Grit is a hard mineral product containing sodium, aluminum, magnesium, lime and iron, natural chemical properties which every poultry raiser knows are necessary to produce paying hens.

Paying hens lay their share of eggs regularly and willingly, never needing to be "forced" because they are well and strong. These are the slow but sure kind, the kind that helps raise the mortgage.

Mico-Spar Cubical Grit produces this kind of paying hens because it **makes and keeps** hens healthy. It creates perfect digestion because it keeps things in the crop on the move, owing to the fact that the corners of the cube always remain sharp. Honest, practical tests have shown that Mico-Spar Cubical Grit is the hen's **choice**, and that the minutest cube left in the crop retains its sharp corners.

Three sizes: No. 1 for hens, No. 2 for pigeons, No. 3 for chicks. Price: 8 lbs. 10c, 25 lbs. 25c, 50 lbs. 45c, 100 lbs. 75c, 500 lbs. \$3.25. Special prices on large quantities.

FOUST'S HEALTH GRIT.

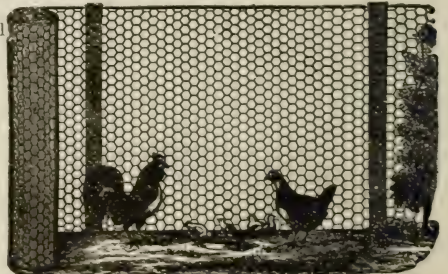
Stands pre-eminent alone, as the highest and only high class grit available to the breeder of high class pigeons. It contains peculiar and unique special properties which no other grit contains; properties whose functions appear to be the rearing of high-class youngsters, which are so difficult, under ordinary circumstances, to bring to full maturity. Price: 5 lbs. 20c, 10 lbs. 30c, 25 lbs. 65c, 50 lbs. \$1.15, 100 lbs. \$2.00.

HEXAGON POULTRY NETTING.

More of this netting is used for poultry yards than any other made. It gives first-class satisfaction, rolls out smooth and is practically indestructible. After the fabric is woven it is given a heavy coating of zinc, which prevents rust, and this in combination with great tensile strength, makes it the best poultry netting on the market.

Each roll 150 feet long. The two inch mesh, which is used for old fowls we furnish in No. 19 wire. The one inch mesh, which is used for little chicks, we furnish in No. 20 wire. Either mesh furnished in the following widths and weights:

Width.	Weight.	Price, per Roll, 2-in. Mesh.	Price, per Roll, 1-in. Mesh.
12 in.	10 lbs.	\$0.75	\$1.65
18 in.	15 lbs.	1.13	2.48
24 in.	20 lbs.	1.50	3.30
30 in.	25 lbs.	1.88	4.13
36 in.	30 lbs.	2.25	4.95
42 in.	35 lbs.	2.63	5.78
48 in.	40 lbs.	3.00	6.60
60 in.	50 lbs.	3.75	8.25
72 in.	60 lbs.	4.50	9.90



5 per cent. discount in 5 roll lots. 10 per cent. discount in 10 roll lots.

Price f. o. b. Milwaukee.

Less than a roll of 1 inch mesh netting 1½c per sq. ft. Less than a roll of 2 inch mesh netting ¾c per sq. ft.

Heavy Galvanized Steel Wire Staples, 1½c per pound, 5 lbs. 45c.

HIGH PROTEIN BEEF SCRAP.

We have no hesitancy in recommending High Protein Beef Scrap as the best of their kind on the market. These goods are ground at the Chicago Stock Yards especially for our trade. We guarantee their purity. No pork or fat is used to add weight. The ordinary commercial scrap contains but 35 to 45 per cent. protein and from 20 to 30 per cent. fat, while our scrap, as analyzed by the State Board of Agriculture, shows 50 to 65 per cent. protein and only 15 to 20 per cent. fat. Fat in excess reduces the feeding values of poultry food, protein being the essential element. We, according, claim that 100 pounds of High Protein Beef Scrap has the feeding value of 200 pounds of any other scrap on the market. This scrap is now being used by the largest duck and poultry raisers in the country. A trial will convince you of the superiority of High Protein Beef Scrap. Do not compare the price you pay for High Protein Scrap with the price asked for other so-called scraps which, as a rule, are no less than refuse from soap factories or fertilizing works and have little or no value as a food. We mail you a sample package for the asking.

Price: 5 lbs. 25c, 10 lbs. 40c, 25 lbs. 80c, 50 lbs. \$1.50, 100 lbs. \$2.90. Special prices on larger quantities.

MEAT MEAL.

This is made from meat, bone, blood and the liquor from cooking. Rich in albumen and protein. It is a nitrogenous food and a great egg producer. 100 lbs. \$2.25, 50 lbs. \$1.25, 25 lbs. 75c, 10 lbs. 35c, 5 lbs. 20c.

GRANULATED BONE.

The impression prevails in many quarters that bone must be fresh or green to be of value as a food. This is not the case. The fresh bone contains about 40 per cent. water and 12 per cent. grease; 52 per cent. of matter which your fowls do not need or care for and which also taxes the digestive organs unnecessarily. The granulated bone we offer is made from fresh, green bones, from which the moisture and grease have been taken, leaving nothing but the phosphate, lime and protein. These are the only food values of bone, green or dry, so when you buy dry bone you do not pay freight on moisture or grease. Granulated Bone will keep in any climate or kind of weather, if kept in a dry place. Bone is especially valuable as an egg-shell producer. Sample package mailed on application. Price: 5 lbs. 20c, 10 lbs. 35c, 25 lbs. 75c, 50 lbs. \$1.25, 100 lbs. \$2.25. Special prices on larger quantities.

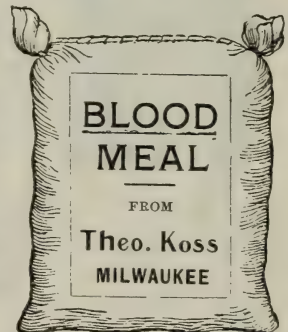
FINE GROUND RAW BONE MEAL.

Raw Bone Meal is also made from fresh bones and is of the same stock as the Granulated Bone, but is reduced through a finer sieve. It is ground fine and is especially useful to mix with mash food. Cyphers Laying Food is a complete ration and it will not be necessary to use Ground Bone Meal if this food is fed, but with any of the other poultry foods offered we recommend the use of Raw Bone Meal. A sample package mailed on application. Price: 5 lbs. 20c, 10 lbs. 35c, 25 lbs. 75c, 50 lbs. \$1.25, 100 lbs. \$2.25. Special Prices on larger quantities.

BLOOD MEAL.

Unexcelled as an Egg Producer.

Pure Blood Meal fed your poultry will make your hens lay, your chicks grow fast and keep your fowls healthy. The Blood Meal offered by us is guarantee to be pure and free from adulteration, also free from objectionable odor which generally accompanies other poultry foods containing animal matter. Our Pure Blood Meal contains no ground bone or other cheap adulteration of any kind. It has less than 5 per cent. of moisture, and is the most complete poultry egg food in use. Price: 5 lbs. 30c, 10 lbs. 50c, 50 lbs. \$2.00, 100 lbs. \$3.50.



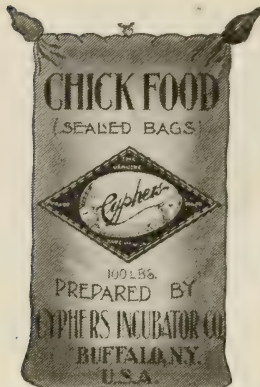
CHARCOAL.

No pultryman can afford to be without charcoal. A little goes a long way, and it is worth its weight in gold to raisers of young chickens. It aids digestion and promotes the health of brooder chicks to a wonderful extent. The use of charcoal is generally corrective of numerous poultry ills.

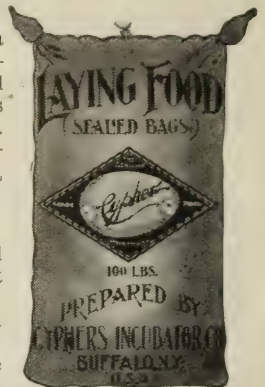
As charcoal absorbs 90 per cent. of its own weight of ammonia (a deadly poison to young chickens) it is necessary that charcoal for poultry should be specially prepared—ordinary commercial charcoal should not be used. Our charcoal is guaranteed pure, and free from dangerous poisons. Sold in two sizes, granulated and pulverized. Prices: 1 lb. 5c, 5 lbs. 20c, 10 lbs. 35c, 25 lbs. 75c, 100 lbs. \$2.75.

CYPHERS CHICK FOOD.

A Complete Food for Young Chicks: Is a mixture of eleven (11) different grains and seeds, proportioned so as to meet all the needs of growing chicks and to fully nourish them. By the term "fully nourished" we mean a great deal. Chick foods, as a rule contain too much fat-forming and not enough bone forming elements; and in consequence the chick develops indigestion and diarrhoea, which ultimately means no digestion at all, and quickly starves to death. Or if partially nourished leg-weakness develops and the chick drags out a miserable existence for a greater or lesser length of time. If you feed Cyphers Chick Food, you are relieved of all concern, as the food is a complete and properly-balanced food, ready for use. Price: 5 lbs. 20c, 10 lbs. 35c, 25 lbs. 85c, 50 lbs. \$1.50, 100 lbs. \$2.50.

**CYPHERS LAYING FOOD.**

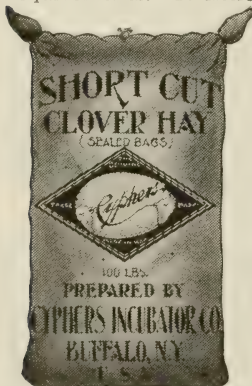
Is the result of study to produce a balanced ration, and is highly nutritious and palatable food. It is a blending of several different food materials in such proportions as to best furnish the elements necessary to fully nourish the body and promote egg production. It is to be mixed with warm water and daily—night or morning—is eaten by the fowls with relish. Price: 10 lbs. 30c, 25 lbs. 65c, 50 lbs. \$1.15, 100 lbs. \$2.00.

**CYPHERS SCRATCHING FOOD.**

In combining grains to be used as an exercise food, scattered in the pens to make the hens work for what they get, it will not do to make up a random assortment of any available material.

It must be composed of material that will be considered with special favor by the hens, something in fact, that their system craves. In this Scratching Food we have exactly filled these requirements. A little of this food scattered in the litter will

quickly start them scratching, which means healthy fowls, full of vigor and vitality, and a full egg basket of hatchable eggs. Price: 10 lbs. 30c, 25 lbs. 65c, 50 lbs. \$1.10, 100 lbs. \$2.00.

**CLOVER PRODUCTS.**

All Cyphers Clover Products are cut and ground in their own mills, they operate a large power plant especially adapted to the work of preparing Short Cut Clover Hay, Shredded Clover and Mealed Clover which are guaranteed to be at least 90% pure clover.

The value of clover as a portion of the regular diet of fowls can hardly be overestimated. Its value has long been recognized by poultrymen as it furnishes protein, lime and other material salts in an easily digested form. Fowls relish it greatly in either dry or green form.

CYPHERS SHORT CUT CLOVER HAY.

This is Clover Hay cut into short lengths and free from waste in the form of long stalks, weeds, etc. Fed either in mash or scalded and fed in a trough by itself.

Directions for feeding in each bag. Price: 5 lbs. 20c, 10 lbs. 30c, 25 lbs. 65c, 50 lbs. \$1.00, 100 lb. bag \$1.75.

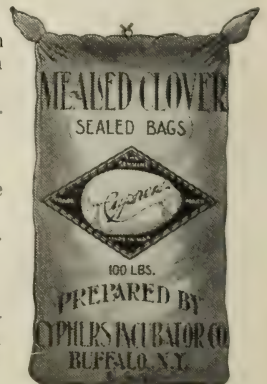
CYPHERS SHREDDED CLOVER.

This article is finer cut than Short Cut Clover and not so fine as Mealed Clover. For use in the daily mash.

Directions for feeding in each bag. Price: 5 lbs. 20c, 10 lbs. 30c, 25 lbs. 65c, 50 lb. bag \$1.00, 100 lb. bag \$1.75.

CYPHERS MEALED CLOVER.

Mealed Clover is Shredded Clover reduced to a meal. It contains the entire product, stalks, leaves and blossoms. Best form for use in mash food for chicks. Price: 5 lbs. 20c, 10 lbs. 35c, 25 lbs. 70c, 50 lb. bag \$1.10, 100 lb. bag \$2.00.



NAPCREOL.

A Fluid Disinfectant and Deodorant,

(Non-poisonous.)

Napcreol is unexcelled for disinfecting poultry houses and runs, stables, dog kennels, toilets, or any place where a good germ or odor destroyer is needed. One gallon will make 100 gallons of disinfectant.

It is a reliable home remedy for all germ diseases affecting poultry. Its use prevents disease. It will cure roup, diphtheria, cholera, chicken-pox, sore eyes, canker, scaly legs, favus and diarrhoea. It will destroy disease germs, mange, parasites, fleas, mites, lice, ticks and worms.

Put up in half-gallon and gallon cans with full directions for use on each package. Price: half-gallon can 85c, gallon can \$1.50.



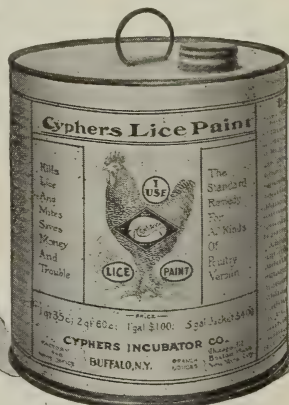
CYPHERS LICE PAINT.

Cyphers Lice Paint is a scientifically compounded preparation for killing lice, mites and other parasites on fowls, also for the lice and ticks on sheep, hogs, horses and cattle.

The vapor which arises from the paint is what does

the work. The vapor is lighter than air and contains an odor which permeates the plumage, and while not obnoxious to persons or harmful to fowls or animals, is deadly to lice, mites and ticks. The easiest of any lice killer to apply, stronger, (thus more effective) and therefore the most economical preparation for the purpose.

Prices: 1-qt. cans 35c, 2-qt. cans 60c, 1-gal. cans each \$1.00. 5-gal. wood-jacket can \$4.00.



CYPHERS LICE POWDER.

A common complaint has been that lice powders are only strong enough to drive lice but do not kill. As soon as the powder loses its strength the lice return to the hen and she is no better off than before. In offering Cyphers Lice Powder, we present a powder that is stronger than any other preparation. Contains no carbolic acid or other chemicals which will injure the fertility of the eggs.

5 ounce package (trial size)...	\$0.10	Postpaid...	\$0.15
15 ounce box.....	.25	Postpaid...	.40
48 ounce box.....	.50	Postpaid...	1.00
100 oz. package (by express at customer's expense)	1.00		

LAMBERT'S DEATH TO LICE.

A Disinfectant Insect Powder.

For lice on setting hens, laying or exhibition stock. Does not soil the plumage yet purifies and cleanses down to the skin. Price: 5-oz. box 10c, 15-oz. box 25c, 48-oz. package 50c, 100-oz. package \$1.00.

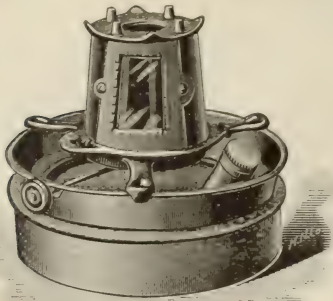
DEATH TO LICE OINTMENT.

Especially adapted for head lice on children and chickens. Recommended also for chiggers, scaly shank on fowls, etc. 10 and 25 cents per box, postpaid.

DEATH TO LICE SPECIAL.

In powder form for dissolving in coal oil or kerosene. Will make one of the best Liquid Louse Killers on the market. Keep dry and mix as wanted. Sample (4-oz. box), enough to make 1 quart, 10c, 16-oz. box 25c, makes 1 gallon.





CYPHERS SAFETY BROODER STOVE.

These stoves are positively without an equal. The water-pan to the Cyphers Brooder Stove holds nearly a quart, which extends over the entire surface of the oil bowl, thus placing a sheet of cold water 1 inch to 1½ inches in thickness between the flame jets and the oil bowl. By this arrangement all danger of overheating the oil is removed and we have a perfectly safe brooder stove that can be relied upon. This stove furnishes twice as much heat as the ordinary brooder lamp, and is much more safe. Height 7½ in., greatest width 10½ in. Price of Cyphers Safety Brooder Stove, each, \$1.25.



CYPHERS PRACTICAL EGG TESTER.

Cyphers Practical Egg Tester is the standard tester in use on large duck and broiler farms, and embodies the best ideas to date. Is 18 in. high, 10 in. wide and 10 in. deep, and is equipped with an extra strong reflector, and a lamp of superior quality. Price, \$1.00.

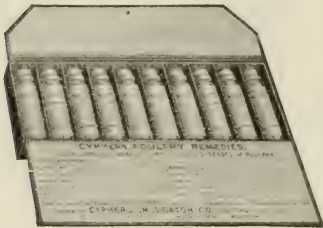


CYPHERS X-RAY EGG TESTER.

This is the standard tin X-Ray Egg Tester, such as is supplied with every Cyphers Incubator. For testing small numbers of eggs it is very effective. It can be used on any ordinary house lamp. Price of X-Ray Egg Tester, 25c.

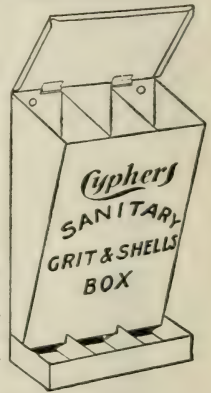
CYPHERS SANITARY GRIT AND SHELL BOXES.

These boxes work a great saving in grit, bone, charcoal and poultry foods that are fed in this manner. Thoroughly practical. Well made from heavy galvanized iron with three compartments and hinged cover lid. Price, each, \$0.50.



CYPHERS MEDICINE CASE OF STANDARD POULTRY REMEDIES.

Put up in a neat, strong case of 10 remedies. Each lot labeled showing dosage and the diseases, which its contents will prevent or cure. Complete directions on each vial. These remedies are used extensively by experienced poultrymen.



Remedy No. 1—Useful in all catarrhal colds of poultry having rattling in the throat as a prominent symptom.

Remedy No. 2—Valuable for all sudden colds, with snuffles, water discharge from eyes and nostrils, and much sneezing. Prevents and cures roup.

Remedy No. 3—For chicken pox and bumble foot, promotes rapid healing of the sores. Cures chronic catarrhal colds of poultry having a croupy cough.

Remedy No. 4—Useful in all diarrhoeas of poultry and particularly in cholera. It is best used in drinking water, and will cure the most obstinate cases.

Remedy No. 5—Will cure diphtheritic roup and all forms of canker.

Remedy No. 6—For all forms of indigestion and liver diseases in poultry. It will cure sour crop, indigestion and some forms of crop-bound.

Remedy No. 7—Useful in egg-bound, and in eye diseases of poultry accompanied by the swelling of one eye, with a collection of yellow matter under the lids. This remedy has been successfully used to promote healthful action of the egg organs, and start hens laying that have delayed egg production after moulting.

Remedy No. 8—For rheumatism and cramps in fowls, particularly when accompanied by swollen legs and difficulty in walking.

Remedy No. 9—Useful to get rid of worms and other intestinal parasites.

Remedy No. 10—Used with great success for the cure of the disorders of the egg organs, which cause soft-shelled eggs. It promotes a healthful condition of the reproductive organs.

Price of complete set of ten remedies \$3.00. Single vials of 100 tablets, in suitable mailing cases, 40c each.

Orders separate vials by number.

KIRKHAM'S GLASS FOUNTAIN.

Just the thing for Brooder use. Made in two parts; top finely moulded glass, bottom of zinc, very durable. Easy to fill and holds about one quart. Each 35c, dozen \$3.50.

SANITARY STONEWARE FOUNTAIN.

Made in two parts. Easy to clean, being glazed on inside and outside.

Four sizes at the following prices:

	Weight	Each.	½ doz.	1 doz.
1 qt. size.....	3 lbs.	\$0.20	\$1.10	\$2.00
½ gal. size...	6 lbs.	.25	1.35	2.50
1 gal. size...	8 lbs.	.35	1.80	3.50
2 gal. size...	13 lbs.	.45	2.40	4.50

W. R. STONEWARE FOUNTAINS.

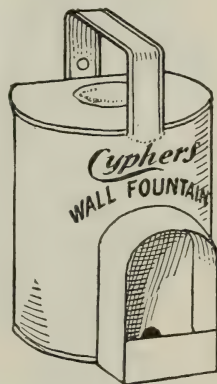
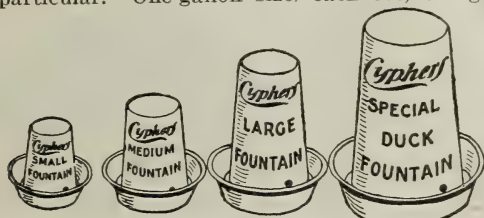
Unexcelled for poultry and pigeons. Filled with cold water in summer it remains cool all day; or in winter, if filled with warm water will retain the warmth a long time.

	Weight.	Each.	½ doz.	1 doz.
½ gal. size.....	4 lbs.	\$0.25	\$1.35	\$2.50
1 gal. size.....	8 lbs.	.35	1.80	3.50
2 gal. size.....	12 lbs.	.45	2.40	4.50

CYPHERS WALL FOUNTAINS.

These fountains are something new and extra serviceable in the way of poultry fountains. One side of the back is flattened so that it can be hung on the wall of a building, or against an upright post or board at any height.

Made of the best galvanized iron, and guaranteed to last many years with proper treatment. We recommend them as first-class in every particular. One-gallon size, each 50c, two-gallon size, each 75c.

**CYPHERS GALVANIZED IRON DRINKING FOUNTAINS.**

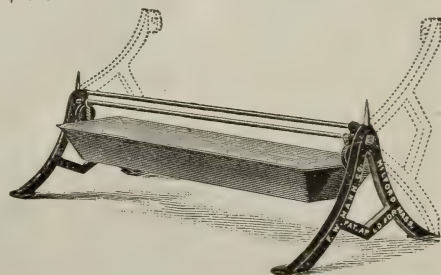
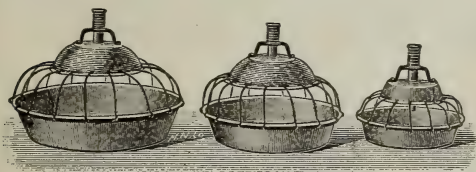
Made in two parts. Easily cleaned and will not burst from freezing.

Small size, capacity 1 quart.....	each, \$0.18	six, \$0.90;	1 dozen, \$1.75
Medium size, capacity 2 quarts.....	each, .25	six, 1.25;	1 dozen, 2.10
Large size, capacity 3½ quarts.....	each, .35	six, 2.00;	1 dozen, 3.50
Special duck size, capacity 8 quarts.....	each, .50	six, 2.50;	1 dozen, 4.50

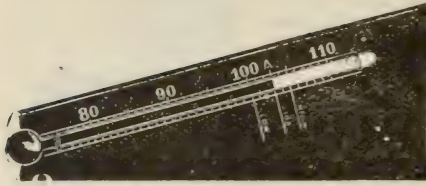
HALLOCK'S FOOD OR WATER HOLDER.

The contents of the dish are protected by a wire screen which prevents fowls from polluting their food or water.

Prices: Small (1 gallon) 75c each; medium (2 gallon), \$1.00 each; large (3 gallon) \$1.25 each.

**SWINGING FEED TRAY FOR POULTRY.**

Saves all waste of food. Weight of hen tips the tray and throws her off. Upper rod tips up also if hen tries to roost over pan. Trays 6½ inches wide, 3 inches deep, and made from one piece of galvanized iron, water tight, will not rust. Price, 18 inch, \$1.00; 27 inch, \$1.25; 36 inch, \$1.50.



CYPHERS INCUBATOR THERMOMETERS.

High-grade tested incubator thermometers; one by mail, 60c; two by mail, \$1.10; six by mail, \$3.00; twelve by express, \$5.00.

CYPHERS BROODER THERMOMETERS.

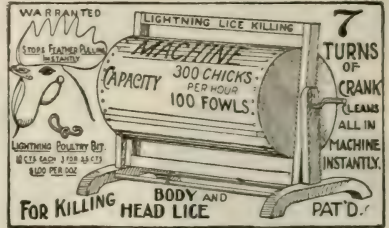
One by mail, 45c; two by mail, 80c; six by mail, \$2.00; twelve by express, \$3.50.

LIGHTNING LICE KILLING MACHINE.

Put chickens in the cylinder, turn it slowly and they will stir up the powder so as to completely cover themselves with it. Price, each, \$3 00

LIGHTNING POULTRY BITS.

Stops feather pulling instantly. Each 10c, \$1.00 per dozen.

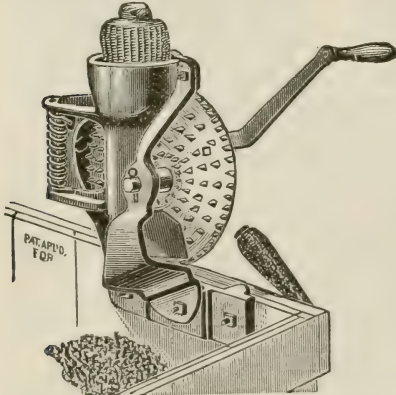
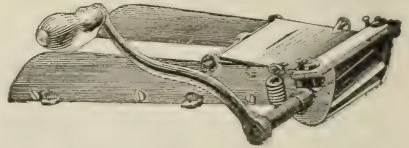


DRY-BONE AND SHELL MILL.

This is one of the handiest appliances in use. It is the best thing for grinding dry bone, oyster or clam shells, coarse grains like corn, charcoal, etc. It is a well-made mill, and thousands of them are in successful use. We have never yet received a complaint from anyone to whom this mill has been sold. The low price at which it is sold places it within the reach of every poultryman, and it will pay for itself in less than one year's time. Diameter of hand wheel, 20 inches, \$4.50 each.

THE STEARNS CLOVER CUTTER.

For a low-priced clover cutter we offer the Stearn's, illustrated herewith. Eight cuts to every revolution of the crank. It is a self-feeder, self-sharpener, weighs only five pounds, thus making the express charges very light. Price \$3.00,



CYPHERS PATENT PEDIGREE NEST.

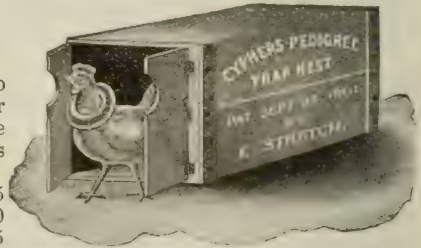
Not only closes the nest to other hens, but also marks the hen and lets her out, and her number tells which nest she laid in, thus avoiding the hen being kept in nest until the keeper comes along to liberate her.

No. 1—For Bantamseach, \$1.25
No. 2—For Leghorns, etc.....each, 1.50
No. 3—For Americans and Asiatics.....each, 1.75

"EASY" CORN SHELLER.

Simple, strong, convenient, cheap. Weight 15 pounds. Capacity, 8 to 10 bushels per hour. A sheller that is portable and can be used in winter evenings near the kitchen fire, or to shell corn for poultry, pop corn, seed corn and other purposes. Is in demand even by those who own a large-sized sheller. It is very simple, nothing to get out of order and will last an unlimited length of time.

Price, each\$1.00



RELIABLE POULTRY JOURNAL.

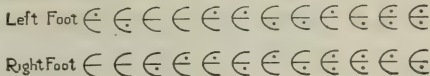
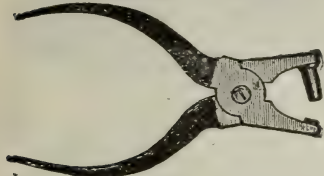
Undoubtedly the best Poultry Paper published. 68 to 168 pages monthly. Most profusely illustrated. Subscription price 50 cents per annum. We offer it to you for 40 CENTS PER YEAR.

DAVIS' CHICK MARKER.

Punch is reversible and cuts two sizes as shown, giving you practically two tools for the price of one. Handle is nicely nickel plated and polished and the Marker complete only weighs $\frac{1}{2}$ ounce.

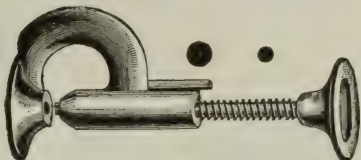
You should mark your chicks as soon as they are taken from the nest by punching a hole in the web between the toes and keep a record of the

marks. This will serve to identify them until they are old enough to be marked with leg bands. The diagram shows a number of different marks which may be used. This method enables you to keep track of the age and parentage of chicks and furnishes a means of identification in case they are stolen. Order one today. Price 25c each, three for 60c postpaid.

**CYPHERS PERFECT MARKER.**

Makes a good, clear, clean cut, and does not mutilate the web, as do many cheaper punches.

Price 50c postpaid.

CLIPPER POULTRY MARKER.

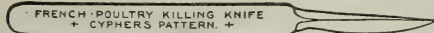
Price, 25c each, postpaid.

JUMBO POWDER GUN.

This Insect Powder Gun has been made to meet a demand for as large a gun as can be held in the hand. The bottom, or spout part, as will be seen, screws on or off, and makes a large opening for filling with powder. Just the thing for applying Cyphers Lice Powder. Price, each, 20c, postpaid, 25c.

**POULTRY KILLING KNIFE.**

Cyphers Special Pattern.



Every poultry raiser who kills and dresses for market, either chickens, ducks, geese or turkeys, should own one of these knives. This knife penetrates the brain in such a manner that the feathers loosen and come off easily. They are made of finely tempered instrument steel, with nickel handle, and will last a lifetime. If you have half a dozen or several hundred fowls to kill and dress for market, one of these knives will prove a highly satisfactory investment. Price, 50c.

PORCELAIN NEST EGGS.

These eggs are made of first-class flint glass, they do not break easily and will last a life-time. Prices, two, 5c. Per dozen, 25c.

OVINAPHTHOL NEST EGGS.

Our Ovinaphthol Lice Killing Nest Egg is the standard combined nest egg and lice killer. By simply using it in the nests in the same manner as any ordinary nest egg is used, laying hens are ridded of lice and mites and are able to occupy the nests with comfort. The use of this nest egg insures absolute freedom from all kinds of insect pests in the nest. They are always at work, safe to use and certain in results. Being prepared with great care for this special purpose they will last a long time and always retain their effectiveness. This makes them the most inexpensive medicated nest egg that can be used. They are standard size eggs, tinted a natural brown color.



Prices of Ovinaphthol Nest Eggs, each 10c, Per dozen, 75c.

WIRE NESTS.

These nests are strongly made from heavy japanned steel wire and will last a lifetime. They are intended to fasten to the wall with screws or screw hooks. There is no room on them for lodgment of lice or vermin of any kind; they are easy to keep clean and are far superior to wooden boxes. Prices, each, 15c. Per dozen, \$1.50. Special prices for large quantities.





IMPERIAL EGG PACKAGE.

LIGHT, COMPACT, STRONG.

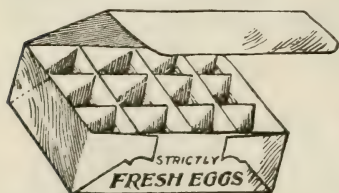
In offering this new package for shipping eggs we do so with confidence that it will receive more universal patronage than has ever before been accorded an egg shipping box. It is so constructed that each egg is incased in a cylinder made of heavy corrugated paper, which conforms to the shape of the egg, the end of each egg resting on a cushion support, thus giving absolute protection to the vital parts. These cylinders are adjustable to any size egg and absolutely prevent breakage.

Prices: 15-egg size, 15c each, \$1.50 per dozen. 30-egg size, 20c each, \$2.00 per dozen.

CANFIELD EGG SHIPPING BOX.

Made entirely of strong cellular board. The tightest, warmest, neatest, lightest and strongest package ever produced for shipping eggs for hatching.

	Weight.	Each.	½ doz.	1 doz.
15-egg size...	9 oz.	\$0.15	\$0.65	\$1.25
30-egg size...	1 lb.	.20	1.00	1.90
50-egg size...	1½ lb.	.30	1.45	2.75



IDEAL PAPER EGG BOXES.

Just the Thing for Your Family Egg Trade.

These boxes are intended for use in delivering eggs to private families. They are exceedingly neat in appearance and go a great way toward making satisfied customers. They ship "knocked down", can easily be set up and can be sent by express or freight at very low rates. The customer, after using contents, can take them apart and return them.

Prices: 1 dozen size, 1 dozen 15c, 50 for 50c, 100 for 90c; 2 dozen size, 1 dozen 30c, 25 for 50c, 50 for 95c, 100 for \$1.75. Ask for special prices on larger quantities.

CYPHERS PURE SULPHUR FUMIGATING CANDLES.

Cyphers Pure Sulphur Fumigating Candles are equal to any fumigating candles on the market regardless of price. They are easy to light, easy to extinguish, safe to use, and produce a vapor deadly to all infectious diseases, disease germs and insect life. We offer these candles to poultrymen as the equal of any candle on the market, regardless of price.

They are used by placing the candle in a small dish, (which accompanies every candle) filled with water. The employment of water in connection with burning sulphur is not only an element of safety from fire, but adds to the efficiency of the candle by producing a vapor which greatly increases the germicidal power of the sulphur fumes. If you want to kill every disease germ, louse or mite in your poultry house or dwelling, light one of these little candles and close up the house or room tight for three or four hours. Prices: Complete with water pan, each, 15c; by mail, 25c. Per dozen, by express, \$1.00.



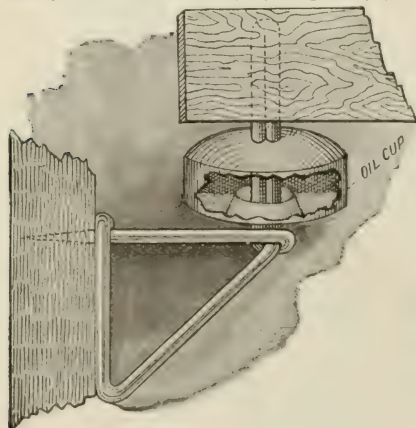
ANTI-LICE ROOST HANGER.

Patent Applied for

These Anti-Lice Roost Hangers are ahead of anything ever invented in this line. The accompanying illustration shows their construction. These hangers are enclosed all around, except a small opening at the bottom, therefore they cannot become filled with dust, dirt or feathers. They are manufactured from the best steel and tin, are light and durable, and with ordinary care will last a lifetime. They are cheap in price, easily put up, and if once used will always be used.

Prices: Per pair, postpaid, 20c; one dozen single hangers, \$1.00.

Throw away your whitewash brush, for this durable little device will do the work while you are asleep.



TRI-JET SPRAYERS.

These little Sprayers have met with a large sale since their introduction. They are needed by every poultryman and farmer, and should be in every household. Great advantage is derived by the use of these sprayers in exterminating potato bugs, tobacco, corn, tomato and currant worms, and all plant insects; also in killing lice in poultry houses. They are used extensively on horses, cattle and swine, and for spraying clothes, carpets, cigar wrappers,

etc.; in fact, wherever a sprayer is needed. These sprayers are light, strong, compact and well made. Each is tested with an automatic spray pump before it leaves the factory. We recommend this sprayer for spraying Cyphers Lice Paints, Lee's Lice Killer, Napcreol, etc., described elsewhere in this catalogue. Price, each, 75c.

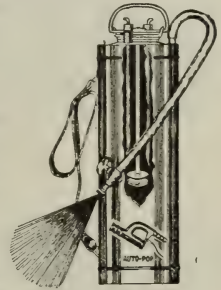
LITTLE GIANT SPRAY PUMP.

For Whitewashing, Window and Buggy Washing, Tree Spraying.

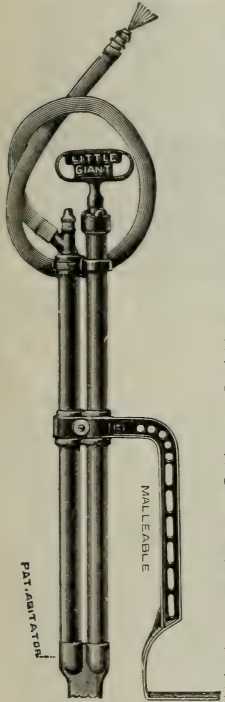
Many poultrymen have become tired of whitewashing their poultry houses in the old way—with a brush—and are looking for an effective spraying pump, at low cost, that will do the work satisfactorily and with far less trouble. We offer such a pump in the Portable Brass Spray Pump illustrated herewith. This pump has a brass cylinder and air chamber, hence will not corrode. It has a steel rod and is furnished complete with foot rest and discharge holes. It is designed to set in a pail or vessel of water with the foot rest outside. It is also arranged to discharge a fine jet in bottom of bucket. This answers the same purpose as an agitator, keeps the whitewash or other mixture thoroughly mixed, and is especially recommended for whitewashing, spraying trees, bushes, flowers, etc. Price, complete, \$3.75.

KNAPSACK AUTO-SPRAY.

Sold under a positive guarantee to give satisfaction or money refunded. A self-operating or automatic compressed air sprayer. An excellent whitewashing outfit. This sprayer has nozzle, stop cock and fittings turned from solid brass, with deep cut threads, three-ply rubber hose; the pump and valves are entirely of brass where they come in contact with the solution. All cast iron parts are malleable iron; the carrying strap is made of eight-ply halter web. The pump is fitted with an improved valve, and take-out and put-in sleeve, which prevents damage or accident to the plunger and packing.



Knapsack Auto-Spray.



Little Giant.

Price, Knapsack Auto-Sprayer, Galvanized Steel Tank.....\$4.50

Price, Knapsack Auto-Sprayer, Brass Tank..... 6.00

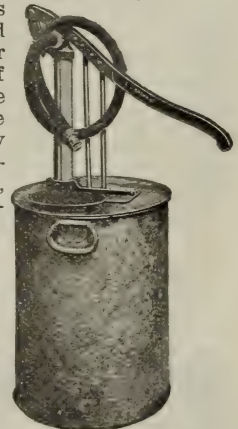
"Auto-Pop" Special Nozzle, each..... 1.00

2 ft. Extension Pipe, each..... .25

THE No. 3C AUTO-SPRAY.

For Whitewashing, Painting or Spraying.

A large practical machine for spraying insecticides and fungicides on trees, shrubs and vines as well as for the application of whitewash or cold water paints. Will do the work of five men with brushes. Warranted the most powerful and most durable machine of its kind. Has heavy galvanized steel tank with reinforced cover, holds 8 gallons. Pump all brass but handle fittings, cylinders extra heavy, ball valves. Complete with 8 feet 3-ply hose, 8 foot iron extension and 1 Vermorel nozzle suitable for all kinds of spraying. Price, \$12.00.



No. 3 Auto-Spray.

LOOK HERE.

ROSE COMB BROWN LEGHORNS, GOLDEN LACE

WYANDOTTES, GOLDEN SEBRIGHT BANTAMS,

A Cockerel Will Improve Your Stock. Utility Stock, \$2.00 to \$3.00.

Circular on Application.

JOHN C. SCHULZ, Sta. D., R. F. D. No. 1, Milwaukee, Wis.



BANNER ROOT CUTTER No. 7.

This is an illustration of the Banner No. 7 Root and Vegetable Cutter, a machine made expressly for poultrymen. It quickly cuts the vegetables into long, round, ribbon-like slices that resemble a bunch of angle worms, which fowls readily eat up to the last morsel. The value of this kind of food once or twice a day, as an egg producer is unequalled. It also puts the fowls into a fine, healthy condition, acting as a gentle tonic and laxative. This machine will pay for itself in a short time. It is a valuable addition to the poultry house, and is highly recommended by the best poultry experts in the country. Price, \$5.00.

**CANFIELD'S.****Exhibition Coops**

These coops are covered with strong canvas, making them neat and durable. The bottom is hinged to back, so that the coop can be raised a little in front for cleaning it out with birds in it, or can be tipped back entirely out of the way if thorough cleaning of the bottom is desired. These goods are put together with screws so they can be taken apart when not in use.

SIZES AND PRICES.

No.	Width.	Depth.	Height.	Each.
X180—18 inches	24 inches	30 inches	..	\$1.75
X240—24 inches	24 inches	30 inches	..	2.00
X300—30 inches	24 inches	30 inches	..	2.25
X400—40 inches	24 inches	30 inches	..	2.50

Use No. X180 for a single bird. Use No. X240 for a pair. Use No. X300 for a trio. Use No. X400 for a pen of five birds.

DOUBLE EXHIBITION COOPS.

Shipped Set Up.

Each of these coops is the same as two coops. Clean out doors at each end.

SIZES AND PRICES.

No.	Length.	Depth.	Height.	Each.
X36—36 inches	24 inches	30 inches	..	\$3.00
X48—48 inches	24 inches	30 inches	..	3.50
X60—60 inches	24 inches	30 inches	..	4.00

HUMPTY DUMPTY FOLDING EGG CRATE.

The Humpty Dumpty Crate will hold twelve dozen eggs and folds perfectly flat when empty, making the most convenient crate for shipping ever invented. Just the thing for taking eggs to market, etc. Price 30c each.

PIGEON NEST BOWLS.

These nests are moulded from clay and are easily fastened to the wall, and make an ideal nest for pigeons.

Price, 15c each, 2 for 25c, 6 for 50c, 12 for \$1.00.

**PRATT'S POULTRY FOOD**

TRADE MARK REGISTERED

PRATT'S FOOD FOR POULTRY.

The Manufacturer of Pratt's Poultry Food Makes the Following Claims for it:

That it positively cures and prevents chicken cholera, roup, gapes and all diseases.

That it makes young chickens grow quickly and profitably.

That it will increase the quantity of eggs.

That it will make turkeys, ducks, geese and pigeons thrive.

That it will help moulting fowls and make them lay sooner.

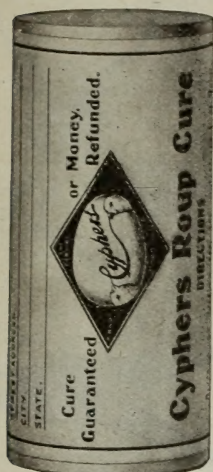
That it is used in over 30,000 towns in the United States; also in Canada, Europe and Africa.

Prices, 26-oz. package.....\$0.25

Prices, 5 lb. package......60

CYPHERS ROUP CURE.

Positively guaranteed remedy for the cure and prevention of this dreaded disease. Also prevents colds and is unequalled for canker, especially in pigeons.



Roup is one of the most common and most deadly diseases affecting poultry. All poultrymen should take precautions against this disease. Roup is a contagious catarrhal disease and usually follows simple neglected colds.

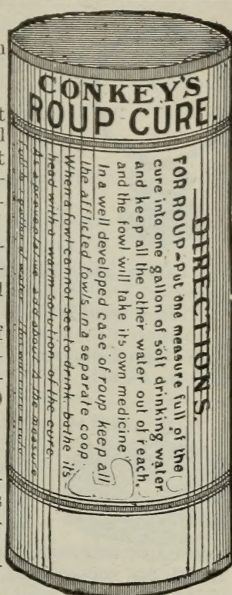
Symptoms: Froth and bubbles in the corners of the eyes. Sneezing and a foul smelling, watery discharge from nostrils, followed by swelling of the head.

One 50c package makes 25 gallons of medicine. One \$1.00 package makes 75 gallons of medicine. Directions on each package. Price: Small size 50c, large size \$1.00 postpaid.

CONKEY'S ROUP CURE.

Is positively guaranteed by the manufacturers to cure roup in all its forms. It is simply put in drinking water and the chicken takes its own medicine.

Prices: Small size packages, 50c postpaid; large size packages, \$1.00 postpaid.

**LEE'S LICE KILLER.**

The use of this preparation has become so universal, and results are so satisfactory, that most poultry raisers would not know how to keep house without it. A can of Lee's Lice Killer, and a few minutes work in applying it to the roosts, means all the expense and labor now necessary to keep the fowls free from both mites and body-lice. 1 quart 35c, 1/2 gal. 60c, 1 gal. \$1.00, 5 gals. \$4.00.

LEE'S EGG MAKER.

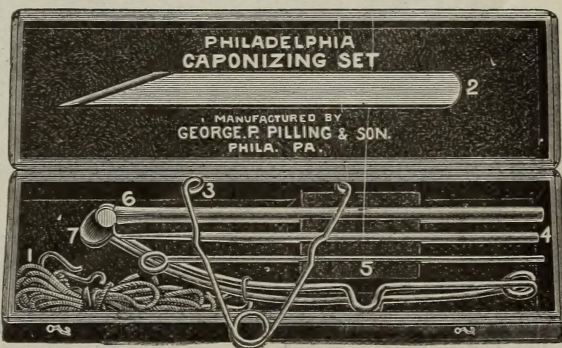
Lee's Egg Maker is one-half granulated blood (deodorized). The other half consists of powdered roots, salts and spices mixed in proportion as most needed and best adapted to the health and productiveness of poultry. 42 oz. package, 125 feeds for 10 fowls 25c, 25 lb. pail \$2.00.

**LEE'S GERMOZONE.**

For Roup, Canker, Inflammation of the Throat, Cholera or Bowel Complaint. It pays to give a little Germozone in the drink two or three times a week, even though there be no sign of sickness. It disinfects the drinking vessels, wards off colds, roup and cholera, and prevents sickness. Price, 50c.

CAPONIZING**INSTRUMENTS.**

These instruments are in demand, especially throughout the west, where caponizing pays handsome profits. We recommend and offer for sale the Pilling instruments, price, per complete set with instructions, in pasteboard box, \$2.50, in velvet case \$2.75. Instructions fully illustrated, accompany each set of instruments. The prices quoted cover postage.



LEG BANDS.

CLIMAX LEG BANDS—THE "STAY ON" KIND.

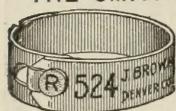
They are in general use by leading poultrymen and poultry associations, and their immense sale attests their popularity. Rings are made of spring brass and the tags are of aluminum.

Sizes: No. 1, $\frac{1}{2}$ in.; No. 2, $\frac{5}{8}$ in.; No. 3, $\frac{3}{4}$ in.; No. 4, $\frac{7}{8}$ in.; No. 5, 1 in.; No. 6, $1\frac{1}{8}$ in. Always give sizes wanted, or state breed of fowls bands are to be used on. They are not made in pigeon sizes.

Prices, postpaid: Per doz., 20c; per 25, 35c; per 50, 60c; per 100, \$1.00. Samples 3c. Discounts on larger lots.

Sizes used for different breeds: No. 1, Bantams and Small Mediterranean. No. 2, Mediterranean Females. No. 3, Mediterranean Males and American Females. No. 4, Large American Females, Small American Males and Small Asiatic Females. No. 5, American Males, Asiatic Females, Small Asiatic Males. No. 6, Asiatic Males and Turkeys.

THE SMITH SEALED LEG BANDS.

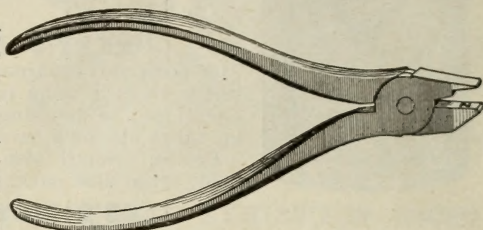


The Smith Sealed Leg Band makes positive identification of the banded bird possible. When sealed on, and the band number and description duly entered on score card, or award card, any child that can read can pick out the bird from card and band. Smith's Sealed Leg Bands never come off when once fastened on and never can be taken off without destroying the band.

These bands are numbered in lettered series of A1 to A10000, B1 to B10000, etc. No duplicate numbers are ever made.

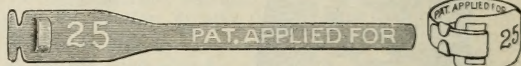
No. 1 Bantams and Small Mediterranean females, etc.; No. 2 ordinary Mediterranean and Pit Game females, etc.; No. 3, Mediterranean males, American females, Pit Game males and females. No. 4, American males, medium Asiatic females, turkey hens, etc. No. 5, ordinary large Asiatics and Tom Turks, etc. No. 6, extra large Asiatics and very large Tom Turks, etc.

Prices: 12, 30c; 25, 50c; 60, \$1.00; 100, \$1.50; 250, \$3.50; 500, \$6.50; 1,000, \$12.50.



Sealer for sealing bands, plain.....\$0.50
Sealer for sealing bands, with lettered jaw65
Nickel sealer for sealing bands, lettered jaw75

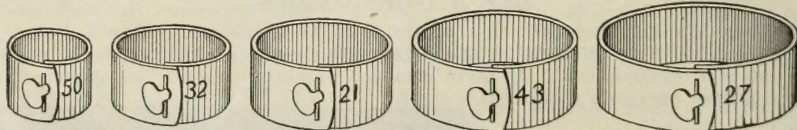
THE IMPROVED CHAMPION LEG BAND.



Made of aluminum, adjustable to fit any fowl, large or small. Impossible for them to come off, being held by double lock.

Price, per dozen, 15c; per 25, 30c; per 50, 50c; per 100, 80c.

THE ECLIPSE LEG BAND.



No. 1, for Bantams and small Mediterraneans. No. 2, for Mediterraneans. No. 3, for American females. No. 4, for American males, Asiatic females, small turkeys. No. 5, for Asiatic males and turkeys. Prices: 15c per 12; 30c per 25; 50c per 50; 75c per 100.

Thoroughbred POULTRY and EGGS FOR HATCHING.

I will gladly supply my patrons with choice Breeding Stock and Eggs for Hatching of Standard varieties of Poultry, also Pigeons.

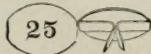
Let me know your wants and I will submit prices.



ALUMINUM PIGEON BANDS.

Seamless, 12, 30c; 25, 60c; 50, \$1.10; 100, \$2.00. Open, 12, 20c; 25, 35c; 50, 60c; 100, \$1.00

THE PERFECT BELGIAN HARE EAR MARKER.



These ear markers are made of aluminum, and are numbered from one to one hundred. They are light in weight durable, and never tarnish or corrode. Price of tags, postpaid, are as follows: 12 tags, 20c; 25 tags, 35c; 50 tags, 65c; 100 tags, \$1.00.



ILLUSTRATED POULTRY BOOKS.

CYPHERS POULTRY LIBRARY.

Recognizing the widespread demand for down to date reliable poultry books, we offer the Cyphers Series on Practical Poultry Keeping.

Book No. 1—"Profitable Poultry Keeping in All its Branches." Essentially a book for the beginner.

Book No. 2—"Profitable Care and Management of Poultry," tells what to do and how to do it. How to use incubators and brooders; prevention and cure of diseases.

Book No. 3—"Profitable Poultry Houses and Appliances", illustrates and describes 60 practical poultry buildings and many labor and time saving poultry plant fixtures.

Book No. 4—"Profitable Egg Farming", treats exhaustively this important branch of the poultry industry.

Book No. 5—"Profitable Market Poultry", fully describes and illustrates this profitable branch of poultry work.

Book No. 6—"Capons for Profit", is a practical treatise on caponizing.

Price of these books is 50 cents each postpaid.

Any five of the above books will be sent to one address, when ordered at one time for \$2.00; any three to one address ordered at one time for \$1.25; all six books for \$2.50.

R. P. J. POULTRY BOOKS.

Success with Poultry—Is a book of 112 pages, 9x12 inches in size, that contains more and better practical, reliable information on the general subject of poultry for profit than any other book. Price, \$1.00.

Artificial Incubating and Brooding—This book contains 88 pages, 12x9 inches in size, with over 100 illustrations. Price, 50 cents.

Barred, White and Buff Plymouth Rocks—Every line in the book written by a well-known breeder. Price, 50 cents.

Reliable Poultry Remedies—Consists of 64 pages, 5x6 inches in size, points out the causes, describes symptoms, and gives tried remedies. Price, 25 cents.

The Wyandottes—Silver, Golden, White, Buff and Partridge. 80 pages, fully illustrated. Price, 50 cents.

Turkeys—Their Care and Management—The most complete book written upon turkey culture. Price, 50 cents.

Eggs and Egg Farms—Is made up of contributions by most experienced and successful breeders. An 80-page book, fully illustrated. Price, 50 cents.

Ducks and Geese—Detailed instructions for Breeding, Rearing and Feeding are furnished. It is fully illustrated with up-to-date cuts. Price, 50 cents.

The Bantam Fowl—Any person who is interested in Bantams, either as pets or for profits, will want a copy of "The Bantam Fowl." Price, 50 cents.

Poultry Houses and Fixtures—Contains the latest designs of practical Poultry Building for the city lot, the village acre and the farm. Price, 25 cents.

"NEPONSET" ROOFING AND LINING PAPERS.

Water tight, air tight, frost tight, vermin proof—actually and fully.

"Neponset" is made in two styles, each adapted to certain uses. One is the "Neponset" Red Rope, which is used for roofing, siding, covering and carpeting. The other is "Neponset" Black Sheathing, and is used for lining and insulating and where the Red Rope proves too expensive.

"Neponset" is not a coated paper, but the same all through. It is water tight; this fits it for roofing. It is impervious to air; this fits it for siding. It is a high non-conductor: this fits it to take the place of back plaster as a defense from the sun in summer and the cold in winter, and also makes it invaluable for all insulating purposes.

"Neponset" Red Rope Paper, rolls 36 in. wide, per roll of 100 square feet....net, \$1.25

"Neponset" Red Rope Paper, rolls 36 in. wide, per roll of 250 square feet....net, 2.75

"Neponset" Red Rope Paper, rolls 36 in. wide, per roll of 500 square feet....net, 5.00

Black "Neponset" Water Proof Building Paper, rolls 36 in. wide.

Per roll of 250 square feet.....net, \$0.90 | Per roll of 500 square feet.....net, \$1.75



IMMENSE CROPS WITHOUT FERTILIZERS.

A new, sure and easy way has recently been discovered to make worn-out or poor land enormously productive without fertilizers and almost without expense. Plants need nitrogen—can't grow without it. Heretofore fertilizers have been needed to put nitrogen into the soil. Nitrogen is very necessary—is the most expensive part of fertilizers. The new way is easier, surer, cheaper—it is to let nitrogen gathering germs feed the plants.

The soil is full of air. Air is four-fifths free nitrogen. Think what limitless plant food, in the form of free nitrogen, the air contains. Right here the new discovery comes in. Plants can't extract nitrogen from the air, but there are germs that can. These germs have been discovered and are now being used for

that purpose. These germs, when put into the soil, fasten themselves to the roots of the plants, draw the free nitrogen out of the air, and feed it to the plants. That's the secret of the new way that is making many farmers rich. The germs do the work—the farmer gets the profit. They save expense, reduce the work, increase the crop enormously, even make it possible to grow Alfalfa and other crops where they never would grow before.

The new way saves the cost of fertilizers and is very easy to use.

The germs come ready for use, in a form called Nitro-Culture. Nitro-Culture is put up in small dry packages you can put in your pocket. Simply add it to water, and sprinkle the water over the seeds before planting. The germs remain on every seed—live with it—increase about it—feed the roots when they start and keep on feeding them. They also enrich the soil by storing nitrogen in it, so that the second year's crop, whatever it may be, is increased from two to ten times.



Specimen plants characteristic of uninoculated and inoculated field of Alfalfa, on farm near Bynum, Hartford County, Maryland. The uninoculated plants turning yellow, though sown on ground richer and better than the inoculated field. Gain from inoculation with Nitro-Culture nearly 500 per cent by weight.

The U. S. Dep't of Agriculture Says:

"It is worse than useless to attempt to grow any leguminous crop without being certain of the presence of the bacteria which enable the plants to fix free nitrogen. Certain regions are practically devoid of the right kind of bacteria, and unless some artificial means of inoculating the germs be resorted to the crop will be a failure."

PRICE LIST.

Nitro-Culture, sufficient to inoculate the following seeds per acre, mailed to any address in the United States or Canada at the following prices:

Alfalfa	per acre, \$2.00	Soy Beans.....	per acre, \$2.00
Red Clover.....	per acre, 2.00	String Beans.....	per acre, 2.00
Crimson Clover.....	per acre, 2.00	Vetch	per acre, 2.00
Japan Clover.....	per acre, 2.00	Velvet Beans.....	per acre, 2.00
Cow Peas.....	per acre, 2.00	Peanuts.....	per acre, 2.00
Garden Peas.....	half acre, 1.00	Horse Beans.....	per acre, 2.00
Sweet Peas.....	half acre, 1.00	Lima Beans.....	per acre, 2.00
Wax Beans	per acre, 2.00		

Guaranteed to keep 6 months from date of shipment and can be used within that time.

THEO. KOSS, MILWAUKEE, WIS.